Refine Search

Search Results -

Terms	Documents
L1 and classif\$8 and rules and first near (classifier or elements)	16

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L2	•		Refine Search

Clear

Search History

DATE: Friday, June 17, 2005 Printable Copy Create Case

Set Name Query side by side

Hit Count Set Name

Interrupt

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

Recall Text =

<u>L2</u> L1 and classif\$8 and rules and first near (classifier or elements)

16 <u>L2</u>

L1 706/20.ccls.

559 L1

END OF SEARCH HISTORY

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 16 of 16 returned.

1. Document ID: US 20040172457 A1

L2: Entry 1 of 16

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172457

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040172457 A1

TITLE: Integration of a computer-based message priority system with mobile

electronic devices

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Horvitz, Eric

Kirkland

WA

HC

US-CL-CURRENT: 709/207; 706/20, 709/224

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De

2. Document ID: US 20040162795 A1

L2: Entry 2 of 16

File: PGPB

Aug 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040162795

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040162795 A1

TITLE: Method and system for feature extraction from outgoing messages for use in

categorization of incoming messages

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Dougherty, Jesse

North Vancouver

CA

COUNTRY

Ascher, David

Vancouver

CA

US-CL-CURRENT: 706/20

-Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: US 20040093316 A1

L2: Entry 3 of 16

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040093316

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040093316 A1

TITLE: Method and apparatus for interpreting information

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Howard, Gary Sawbridgeworth GB
Barson, Paul Colin Bishops Stortford GB
Field, Simon Harpenden GB
Hobson, Philip William Bishops Stortford GB

US-CL-CURRENT: 706/25; 706/20, 706/47

Full Title Citation Front Review Classification Dat	e Referenc	se Sequences Attachments	Claims	Kwic	Draw De
		······································			***************************************
4. Document ID: US 20040034609 A1					
L2: Entry 4 of 16	File: H	PGPB	Feb	19,	2004

PGPUB-DOCUMENT-NUMBER: 20040034609

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040034609 A1

TITLE: Neural cortex

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Pok, Yang Ming Singapore SG Mikhailov, Alexei Singapore SG

US-CL-CURRENT: 706/20; 706/26

·	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw (
·													
·													

L2: Entry 5 of 16 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002931

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002931 A1

TITLE: Probability estimate for K-nearest neighbor

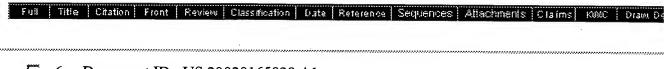
PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Platt, John C. Bellevue WA US Burges, Christopher J.C. Bellevue WA US

US-CL-CURRENT: <u>706/46</u>; <u>706/20</u>



L2: Entry 6 of 16 File: PGPB Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165838

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020165838 A1

TITLE: Performance analysis of distributed applications using automatic

classification of communication inefficiencies

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Vetter, Jeffrey S. Pleasanton CA US

US-CL-CURRENT: 706/20

Full Title Chation Front Review Classification Date Reference Sequences	: Attachments cı	alms KWC Draw De

7. Document ID: US 6850920 B2

L2: Entry 7 of 16 File: USPT Feb 1, 2005

US-PAT-NO: 6850920

DOCUMENT-IDENTIFIER: US 6850920 B2

TITLE: Performance analysis of distributed applications using automatic

classification of communication inefficiencies

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Vetter; Jeffrey S.

Pleasanton

CA

US-CL-CURRENT: 706/11; 706/20



8. Document ID: US 6792418 B1

L2: Entry 8 of 16

File: USPT

Sep 14, 2004

US-PAT-NO: 6792418

DOCUMENT-IDENTIFIER: US 6792418 B1

TITLE: File or database manager systems based on a fractal hierarchical index

structure

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME

CITY Wollerau STATE

ZIP CODE

COUNTRY

Binnig; Gerd K.

Adliswil

CH CH

Bloechl; Peter Klenk; Juergen

Adliswil

CH

US-CL-CURRENT: 707/3; 704/1, 706/15, 706/20, 707/100, 707/2

Full	Title		Review	Classificatio	on Date	Reference		Ola ims	KOMC	Draw, De
5 9										
	······	·····	 ······	••••••		······	 ·····		·····	······································

9. Document ID: US 6092059 A

L2: Entry 9 of 16

File: USPT

Jul 18, 2000

US-PAT-NO: 6092059

DOCUMENT-IDENTIFIER: US 6092059 A

TITLE: Automatic classifier for real time inspection and classification

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME CITY

Kensington

ZIP CODE

COUNTRY

Straforini; Marco L.

CA

FR

Lavagnino; Sherrill E.

Oakland

CA

STATE

Badger; John C. Wolinsky; Jeffrey M. Paris

Tilson; Bret R.

Berkeley Berkeley

CA CA

US-CL-CURRENT: 706/14; 706/10, 706/20, 706/47

Full Title Citation Front Review Classification Date Reference Claims KMC Draw D.

10. Document ID: US 5974404 A

L2: Entry 10 of 16

File: USPT

Oct 26, 1999

US-PAT-NO: 5974404

DOCUMENT-IDENTIFIER: US 5974404 A

TITLE: Method and apparatus for input classification using a neural network

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Moed; Michael C. Lee; Chih-Ping

Norwalk Danbury CTCT

US-CL-CURRENT: <u>706/25</u>; <u>382/156</u>, <u>706/20</u>

Full Title Citation Front Review Classification Date Reference

11. Document ID: US 5793932 A

L2: Entry 11 of 16

File: USPT

Aug 11, 1998

US-PAT-NO: 5793932

DOCUMENT-IDENTIFIER: US 5793932 A

TITLE: Image recognition device and an image recognition method

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Kuratomi; Yasunori

Suita

JΡ JΡ

Ogawa; Hisahito

Nata-ken

US-CL-CURRENT: 382/190; 382/206, 706/20, 706/40

Full Title Chation Front Review Classification Date Reference

12. Document ID: US 5638491 A

L2: Entry 12 of 16

File: USPT

Jun 10, 1997

US-PAT-NO: 5638491

DOCUMENT-IDENTIFIER: US 5638491 A

Record List Display Page 6 of 8

TITLE: Method and apparatus for hierarchical input classification using a neural

network

DATE-ISSUED: June 10, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moed; Michael C. Ridgefield

US-CL-CURRENT: 706/20; 382/156, 706/28

Full Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWAC	Draw De
	······			•••••	······	······	······································	•••••		

13. Document ID: US 5505057 A

L2: Entry 13 of 16 File: USPT Apr 9, 1996

US-PAT-NO: 5505057

DOCUMENT-IDENTIFIER: US 5505057 A

TITLE: Pattern classification system

DATE-ISSUED: April 9, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sato; Masaaki	Kawasaki			JP
Naka; Motohiko	Kawasaki			JP
Shida; Takehiko	Yokohama			JP
Yoshida; Kunio	Kawasaki			JP
Saitoh; Mie	Kawasaki			JP ·
Akamine; Ikuo	Kusatsu			JP
Shimizu; Makoto	Kyoto			JP
Fujiwara; Katsuhiko	Kusatsu			JP
Yokouchi; Akira	Shiga			JP

US-CL-CURRENT: 62/231; 236/78D, 706/20, 706/904

Full	Title	Citation	Front	Classification	Reference			Claims	KARAC	Draws D
***************************************		***************		 ************	 ***************************************	~~~~	~~~~	••••	*****	

L2: Entry 14 of 16 File: USPT Sep 19, 1995

US-PAT-NO: 5452399

DOCUMENT-IDENTIFIER: US 5452399 A

** See image for <u>Certificate of Correction</u> **

TITLE: Method and apparatus for input classification using a neuron-based voting scheme

Record List Display Page 7 of 8

DATE-ISSUED: September 19, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moed; Michael C. Norwalk CT

US-CL-CURRENT: 706/20; 382/156

-Full Title Citation Front Review Classification Date Reference

15. Document ID: US 5438629 A

L2: Entry 15 of 16 File: USPT Aug 1, 1995

US-PAT-NO: 5438629

DOCUMENT-IDENTIFIER: US 5438629 A

** See image for <u>Certificate of Correction</u> **

TITLE: Method and apparatus for input classification using non-spherical neurons

DATE-ISSUED: August 1, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moed; Michael C. Norwalk CT Lee; Chih-Ping Danbury CT

US-CL-CURRENT: 382/156; 382/159, 706/20, 706/25

Full Title Citation Front Review Classification Date Reference Citation Citation Company De

16. Document ID: US 4809347 A

L2: Entry 16 of 16 File: USPT Feb 28, 1989

US-PAT-NO: 4809347

DOCUMENT-IDENTIFIER: US 4809347 A

TITLE: Computer vision architecture

DATE-ISSUED: February 28, 1989

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Nash; James G. Los Angeles CA Shu; David B. Canoga Park CA

US-CL-CURRENT: 382/240; 382/302, 700/259, 700/4, 706/20

Full Title Citation Front Review Classification Date Reference

Clear	Generate Collection Print Fwd Refs Bkwd Refs	Generate OACS
	Terms	Documents
0	L1 and classif\$8 and rules and first near (classifier or elements)	16

Display Format: -Change Format

Previous Page Next Page Go to Doc#

Refine Search

Search Results -

Terms	Documents
L4 and first near (classifier or elements)	9

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L5		,	Refine Search
Re	call Text	Clear	Internot

Search History

DATE: Friday, June 17, 2005 Printable Copy Create Case

Set Name		Hit Count	<u>Set Name</u>
side by side	· ·		result set
DB=PC	GPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=NO; OP=COMPACT STATES ST	OR .	•
<u>L5</u>	L4 and first near (classifier or elements)	9	<u>L5</u>
<u>L4</u>	L3 and outputs and generate	80	<u>L4</u>
<u>L3</u>	L1 and classif\$8 and rules and first and (classifier or elements)	139	<u>L3</u>
<u>L2</u>	L1 and classif\$8 and rules and first near (classifier or elements)	16	<u>L2</u>
<u>L1</u>	706/20.ccls.	559	L1

END OF SEARCH HISTORY

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 9 of 9 returned.

1. Document ID: US 20040172457 A1

L5: Entry 1 of 9

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172457

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040172457 A1

TITLE: Integration of a computer-based message priority system with mobile

electronic devices

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Horvitz, Eric

Kirkland

WA

110

rc

US-CL-CURRENT: 709/207; 706/20, 709/224

-Full	Title Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KARC	Drawa D

2. Document ID: US 20040093316 A1

L5: Entry 2 of 9

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040093316

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040093316 A1

TITLE: Method and apparatus for interpreting information

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Howard, Gary Sawbridgeworth GB
Barson, Paul Colin Bishops Stortford GB
Field, Simon Harpenden GB
Hobson, Philip William Bishops Stortford GB

US-CL-CURRENT: <u>706/25</u>; <u>706/20</u>, <u>706/47</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De

3. Document ID: US 20040002931 A1

L5: Entry 3 of 9

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002931

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002931 A1

TITLE: Probability estimate for K-nearest neighbor

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Platt, John C. Bellevue WA US Burges, Christopher J.C. Bellevue WA US

US-CL-CURRENT: 706/46; 706/20

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw Do

4. Document ID: US 6092059 A

L5: Entry 4 of 9

File: USPT

Jul 18, 2000

US-PAT-NO: 6092059

DOCUMENT-IDENTIFIER: US 6092059 A

TITLE: Automatic <u>classifier</u> for real time inspection and <u>classification</u>

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Straforini; Marco L. Kensington CA Lavagnino; Sherrill E. Oakland CA

Badger; John C. Paris FR

Wolinsky; Jeffrey M. Berkeley CA Tilson; Bret R. Berkeley CA

US-CL-CURRENT: 706/14; 706/10, 706/20, 706/47

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Claims | KANC | Drava Do

5. Document ID: US 5974404 A

L5: Entry 5 of 9 File: USPT Oct 26, 1999

Record List Display Page 3 of 5

US-PAT-NO: 5974404

DOCUMENT-IDENTIFIER: US 5974404 A

TITLE: Method and apparatus for input classification using a neural network

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME CITY STATE

Moed; Michael C.

Norwalk CT

Lee; Chih-Ping Danbury CT

US-CL-CURRENT: 706/25; 382/156, 706/20



6. Document ID: US 5638491 A

L5: Entry 6 of 9

File: USPT

Jun 10, 1997

COUNTRY

US-PAT-NO: 5638491

DOCUMENT-IDENTIFIER: US 5638491 A

TITLE: Method and apparatus for hierarchical input classification using a neural

network

DATE-ISSUED: June 10, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

ZIP CODE

COUNTRY

Moed; Michael C.

Ridgefield

US-CL-CURRENT: <u>706/20</u>; <u>382/156</u>, <u>706/28</u>

Full Title Citation Front	Review Classification	Date	Reference	Claims	KMC	Draw De

7. Document ID: US 5505057 A

L5: Entry 7 of 9

File: USPT

Apr 9, 1996

US-PAT-NO: 5505057

DOCUMENT-IDENTIFIER: US 5505057 A

TITLE: Pattern <u>classification</u> system

DATE-ISSUED: April 9, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sato; Masaaki Kawasaki JΡ

Sep 19, 1995

Aug 1, 1995

Naka; Motohiko	Kawasaki	JP
Shida; Takehiko	Yokohama	JP
Yoshida; Kunio	Kawasaki	JP
Saitoh; Mie	Kawasaki	JP
Akamine; Ikuo.	Kusatsu	JP
Shimizu; Makoto	Kyoto	JP
Fujiwara; Katsuhiko	Kusatsu	JP
Yokouchi; Akira	Shiga	JP

US-CL-CURRENT: 62/231; 236/78D, 706/20, 706/904

Full	Ţ	litle	Citation	Frent		Classification	Reference		Claims	KWC	Draw De
 	••••	•••••			••••••	····		 	***************************************		~~~~
	8	3.]	Documer	nt ID:	US 545	52399 A					

File: USPT

US-PAT-NO: 5452399

L5: Entry 8 of 9

DOCUMENT-IDENTIFIER: US 5452399 A

** See image for <u>Certificate of Correction</u> **

TITLE: Method and apparatus for input classification using a neuron-based voting

scheme

DATE-ISSUED: September 19, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moed; Michael C. Norwalk CT

US-CL-CURRENT: 706/20; 382/156

Full		Title	Citation F	tent	Review Classification		Reference		Claims	KustC	Draw. D
*************						******		 			
ganna	(9	D		US 5438629 A						

File: USPT

US-PAT-NO: 5438629

L5: Entry 9 of 9

DOCUMENT-IDENTIFIER: US 5438629 A

** See image for <u>Certificate of Correction</u> **

TITLE: Method and apparatus for input classification using non-spherical neurons

DATE-ISSUED: August 1, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moed; Michael C. Norwalk CT Lee; Chih-Ping Danbury CT US-CL-CURRENT: 382/156; 382/159, 706/20, 706/25

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Display Format: - Change Format

Previous Page Next Page Go to Doc#

Refine Search

Search Results -

Terms	Documents
L7 and rules	49

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L8		<u>.</u>	Refine Search
	Recall Text	Clear	Internot

Search History

DATE: Friday, June 17, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=P	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR		
<u>L8</u>	L7 and rules	49	<u>L8</u>
<u>L7</u>	L6 and first near classifier	49	<u>L7</u>
<u>L6</u>	classif\$8 and rules and first and (classifier or elements) and outputs and generate	4824	<u>L6</u>
<u>L5</u>	L4 and first near (classifier or elements)	9	<u>L5</u>
<u>L4</u>	L3 and outputs and generate	80	<u>L4</u> .
<u>L3</u>	L1 and classif\$8 and rules and first and (classifier or elements)	139	<u>L3</u>
<u>L2</u>	L1 and classif\$8 and rules and first near (classifier or elements)	16	<u>L2</u>
. <u>L1</u>	706/20.ccls.	559	<u>L1</u>

END OF SEARCH HISTORY

Mar 3, 2005

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 49 of 49 returned.

1. Document ID: US 20050059876 A1

L8: Entry 1 of 49

File: PGPB Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050059876

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050059876 A1

TITLE: Systems and methods for providing automated regional myocardial assessment

for cardiac imaging

PUBLICATION-DATE: March 17, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Krishnan, Sriram Exton PA US
Rao, R. Bharat Berwyn PA US
Bennett, Richard M. Half Moon Bay CA US

US-CL-CURRENT: 600/407; 128/920, 600/410, 600/425, 600/437

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File: PGPB

PGPUB-DOCUMENT-NUMBER: 20050049855

PGPUB-FILING-TYPE: new

. L8: Entry 2 of 49

DOCUMENT-IDENTIFIER: US 20050049855 A1

TITLE: Method and apparatus for frame classification and rate determination in

voice transcoders for telecommunications

PUBLICATION-DATE: March 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Chong-White, Nicola Greenwich NSW AU
Wang, Jianwei Killarney Heights NSW AU
Jabri, Marwan A. Broadway NSW AU

Record List Display Page 2 of 22

US-CL-CURRENT: 704/219

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: US 20050049852 A1

L8: Entry 3 of 49

File: PGPB

Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050049852

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050049852 A1

TITLE: Adaptive and scalable method for resolving natural language ambiguities

PUBLICATION-DATE: March 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Chao, Gerald CheShun Los Angeles CA US

US-CL-CURRENT: 704/9

..Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

4. Document ID: US 20050020903 A1

L8: Entry 4 of 49 File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050020903

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050020903 A1

TITLE: Systems and methods for automated diagnosis and decision support for heart

related diseases and conditions

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Krishnan, Sriram Exton PA US Gupta, Alok Bryn Mawr US PΑ Rao, R. Bharat Berwyn PA US Comaniciu, Dorin Princeton NJ US Zhou, Xiang Sean Plainsboro NJ US

US-CL-CURRENT: 600/407; 128/920, 128/925

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Killion

5. Document ID: US 20040267893 A1

L8: Entry 5 of 49

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040267893

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040267893 A1

TITLE: Fuzzy logic voting method and system for classifying E-mail using inputs

from multiple spam classifiers

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Lin, Wei

Denver

CO

US

US-CL-CURRENT: <u>709/207</u>

-Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Drawi De

6. Document ID: US 20040236719 A1

L8: Entry 6 of 49

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040236719

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040236719 A1

TITLE: Transmitting information given constrained resources

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Horvitz, Eric

Seattle

WA

US

US-CL-CURRENT: 707/1

-Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw De

7. Document ID: US 20040236611 A1

L8: Entry 7 of 49

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040236611

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040236611 A1

TITLE: System and process for a neural network <u>classification</u> for insurance underwriting suitable for use by an automated system

Record List Display Page 4 of 22

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Bonissone, Piero Patrone Schenectady NY US Subbu, Rajesh Venkat NY US Troy Yan, Weizhong Clifton Park NY US Chakraborty, Anindya Schenectady NY US

US-CL-CURRENT: 705/4

-Full Title Citation Front Review [Classification Date Reference Sequences Atta	ochments Claims KVMC Brava D
		······································
8. Document ID: US 2004	40220840 A1	
L8: Entry 8 of 49	File: PGPB	Nov 4, 2004

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040220840

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040220840 A1

TITLE: System and process for multivariate adaptive regression splines classification for insurance underwriting suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Bonissone, Piero Patrone Schenectady NY US Messmer, Richard Paul Rexford NY US Subbu, Rajesh Venkat Troy NY US Yan, Weizhong Clifton Park NY US Chakraborty, Anindya Schenectady NY US

US-CL-CURRENT: 705/4

Fuil	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Drawy De
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, m	9.	Documen	t ID:	US 20	040220839	A1	***************************************	······································	······	······································	•••••	

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20040220839

PGPUB-FILING-TYPE: new

L8: Entry 9 of 49

DOCUMENT-IDENTIFIER: US 20040220839 A1

TITLE: System and process for dominance classification for insurance underwriting suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

Record List Display

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bonissone, Piero Patrone Schenectady NY US Iyer, Naresh Sundaram Clifton Park NY US

US-CL-CURRENT: 705/4

Fuil	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMO	Drawn De

10. Document ID: US 20040220838 A1

L8: Entry 10 of 49

File: PGPB Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040220838

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040220838 A1

TITLE: System and process for detecting outliers for insurance underwriting

suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bonissone, Piero Patrone Schenectady NY US Iyer, Naresh Sundaram Clifton Park NY US

US-CL-CURRENT: 705/4

	itle	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Kusc	Dra
ш	me :	Okanon j	Prom	Review	Classingation	vare	Reference	sequences	Anacoments	Claims	KORC	i

11. Document ID: US 20040220837 A1

L8: Entry 11 of 49 File: PGPB Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040220837

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040220837 A1

TITLE: System and process for a fusion classification for insurance underwriting

suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Bonissone, Piero Patrone Schenectady NY US Aggour, Kareem Sherif Niskayuna NY US Subbu, Rajesh Venkat Troy NY US Yan, Weizhong Clifton Park NY US

Iyer, Naresh Sundaram

Clifton Park

NY

US

Chakraborty, Anindya

Schenectady

NY

US

US-CL-CURRENT: 705/4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De

12. Document ID: US 20040215606 A1

L8: Entry 12 of 49

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040215606

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040215606 A1

TITLE: Method and apparatus for machine learning a document relevance function

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Cossock, David

Berkeley

CA

US

US-CL-CURRENT: 707/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De

13. Document ID: US 20040172483 A1

L8: Entry 13 of 49

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172483

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040172483 A1

TITLE: Methods for routing items for communications based on a measure of

criticality

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME CITY

STATE

COUNTRY

RULE-47

Horvitz, Eric

Kirkland

WA

US

US-CL-CURRENT: <u>709/240</u>; <u>709/206</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

14. Document ID: US 20040172457 A1

L8: Entry 14 of 49

. File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172457

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040172457 A1

TITLE: Integration of a computer-based message priority system with mobile

electronic devices

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Horvitz, Eric

Kirkland

WA

US

US-CL-CURRENT: 709/207; 706/20, 709/224

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Atlachments | Claims | RMC | Draw De

15. Document ID: US 20040015557 A1

L8: Entry 15 of 49

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040015557 A1

TITLE: Methods for routing items for communications based on a measure of

criticality

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Horvitz, Eric

Kirkland

WA

US

US-CL-CURRENT: <u>709/206</u>

Full Title Citation Front Review Classification Date Reference Sequences Affachments Claims KMC Draw Do

16. Document ID: US 20040003087 A1

L8: Entry 16 of 49

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040003087

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040003087 A1

TITLE: Method for improving performance in a computer storage system by regulating

resource requests from clients

Record List Display Page 8 of 22

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Chambliss, David Darden Morgan Hill CA US

Jadav, Divyesh San Jose CA US

US-CL-CURRENT: 709/226

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWAC | Draws De

17. Document ID: US 20040002931 A1

L8: Entry 17 of 49 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002931

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002931 A1

TITLE: Probability estimate for K-nearest neighbor

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Platt, John C. Bellevue WA US Burges, Christopher J.C. Bellevue WA US

US-CL-CURRENT: 706/46; 706/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw Do

18. Document ID: US 20030208488 A1

L8: Entry 18 of 49 File: PGPB Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030208488

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030208488 A1

TITLE: System and method for organizing, compressing and structuring data for data

mining readiness

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Perrizo, William K. Fargo ND US

US-CL-CURRENT: 707/6

Record List Display Page 9 of 22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De

19. Document ID: US 20030172043 A1

L8: Entry 19 of 49

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030172043

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030172043 A1

TITLE: Methods of identifying patterns in biological systems and uses thereof

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Guyon, Isabelle Berkeley CA US Weston, Jason St. Leonard's on Sea GB

US-CL-CURRENT: 706/48

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1000C Draw De

20. Document ID: US 20020164070 A1

L8: Entry 20 of 49 File: PGPB Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164070

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020164070 A1

TITLE: Automatic algorithm generation

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Kuhner, Mark B. Upper Arlington OH US Burgoon, David A. Columbus OH US Keller, Paul E. Richland WA US Rust, Steven W. Worthington OH US Schelhorn, Jean E. Granville Township OH US Sinnott, Loraine T. Columbus OH US Stark, Gregory V. Columbus OH US Taylor, Kevin M. Upper Arlington OH US Whitney, Paul D. Richland WA US

US-CL-CURRENT: 382/159; 382/190, 382/224

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMIC | Draw Da

21. Document ID: US 20010042087 A1

L8: Entry 21 of 49

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010042087

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010042087 A1

TITLE: AN AUTOMATED ASSISTANT FOR ORGANIZING ELECTRONIC DOCUMENTS

PUBLICATION-DATE: November 15, 2001

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

KEPHART, JEFFREY OWEN CORTLAND MANOR NY US SEGAL, RICHARD BRIAN OSSINING NY US WHITE, STEVE RICHARD NEW YORK NY US

US-CL-CURRENT: 715/530

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De

22. Document ID: US 6801662 B1

L8: Entry 22 of 49

File: USPT

Oct 5, 2004

US-PAT-NO: 6801662

DOCUMENT-IDENTIFIER: US 6801662 B1

TITLE: Sensor fusion architecture for vision-based occupant detection

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Owechko; Yuri Newbury Park CA Srinivasa; Narayan Moorpark CA Medasani; Swarup S. Thousand Oaks CA Boscolo; Riccardo Culver City CA

US-CL-CURRENT: 382/224; 382/103, 382/104, 382/284, 701/45

Full Title Citation Front Review Classification Date Reference

23. Document ID: US 6714967 B1

L8: Entry 23 of 49

File: USPT

Mar 30, 2004

Record List Display Page 11 of 22

US-PAT-NO: 6714967

DOCUMENT-IDENTIFIER: US 6714967 B1

TITLE: Integration of a computer-based message priority system with mobile

electronic devices

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Horvitz; Eric Kirkland WA

US-CL-CURRENT: 709/206; 370/265, 370/466, 706/45, 706/47, 709/204, 709/207,

<u>709/232, 718/101, 718/103</u>



24. Document ID: US 6622160 B1

L8: Entry 24 of 49 File: USPT Sep

Sep 16, 2003

US-PAT-NO: 6622160

DOCUMENT-IDENTIFIER: US 6622160 B1

TITLE: Methods for routing items for communications based on a measure of

criticality

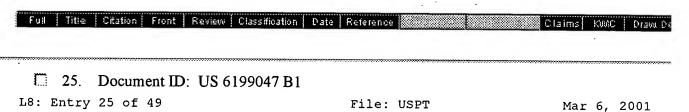
DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Horvitz; Eric Kirkland WA

US-CL-CURRENT: <u>709/206</u>; <u>709/207</u>



US-PAT-NO: 6199047

DOCUMENT-IDENTIFIER: US 6199047 B1

TITLE: Apparatus and method for an event rating engine

DATE-ISSUED: March 6, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Dimino; James Arvad CO

Smith; Mitchell W.

Boulder CO

Bones; David

Boulder CO

Bell; Brigham

Boulder

CO

US-CL-CURRENT: 705/10; 379/114.01

Full Title Citation Front Review Classification Date Reference

26. Document ID: US 6185336 B1

L8: Entry 26 of 49

File: USPT

Feb 6, 2001

US-PAT-NO: 6185336

DOCUMENT-IDENTIFIER: US 6185336 B1

TITLE: Method and system for classifying a halftone pixel based on noise injected

halftone frequency estimation

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Clark; Raymond J.

Webster

NY

Schweid; Stuart A.

Pittsford

NY

US-CL-CURRENT: 382/224; 358/1.9, 382/176, 382/237

Full Title Citation Front Review Classification Date Reference Claims KWC Draw De

27. Document ID: US 6148104 A

L8: Entry 27 of 49

File: USPT

Nov 14, 2000

US-PAT-NO: 6148104

DOCUMENT-IDENTIFIER: US 6148104 A

TITLE: Incremental ideographic character input method

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Wang; Chung-Ning

San Jose

CA

Platt; John C. Matic; Nada P. Fremont San Jose CA CA

US-CL-CURRENT: 382/185; 382/187, 382/189

Full Title Citation Front Review Classification Date Reference

28. Document ID: US 6137899 A

L8: Entry 28 of 49

File: USPT

Oct 24, 2000

US-PAT-NO: 6137899

DOCUMENT-IDENTIFIER: US 6137899 A

TITLE: Apparatus for the identification of free-lying cells

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP C	CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA			
Wilhelm; Paul S.	Kirkland	WA			
Bannister; Wendy R.	Seattle	WA			•
Kuan; Chih-Chau L.	Redmond	WA			
Oh; Seho	Mukilteo	WA			
Meyer; Michael G.	Seattle	WA		•	

US-CL-CURRENT: 382/133; 382/134, 382/226, 382/228

Full	Title Citati	on Frent	Review Classification	Date	Reference		Claims	KMC	Draw, Di
	***************************************		***************************************			 ·····			

29. Document ID: US 6134354 A

L8: Entry 29 of 49

File: USPT

Oct 17, 2000

US-PAT-NO: 6134354

DOCUMENT-IDENTIFIER: US 6134354 A

TITLE: Apparatus for the identification of free-lying cells

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Wilhelm; Paul S.	Kirkland	WA		
Bannister; Wendy R.	Seattle	WA		
Kuan; Chih-Chau L.	Redmond	WA		
Oh; Seho	Mukilteo	WA		
Meyer; Michael G.	Seattle	WA		

US-CL-CURRENT: 382/270; 382/133, 382/274, 382/308

Full	Title	Citation	Front	Review	Classification	Date	Reference Claims ROMC Draw, D	Ē

30. Document ID: US 6092059 A

L8: Entry 30 of 49

File: USPT

Jul 18, 2000

US-PAT-NO: 6092059

DOCUMENT-IDENTIFIER: US 6092059 A

TITLE: Automatic <u>classifier</u> for real time inspection and <u>classification</u>

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Straforini; Marco L. Kensington CA Lavagnino; Sherrill E. Oakland CA

Badger; John C. Paris FR

Wolinsky; Jeffrey M. Berkeley CA Tilson; Bret R. Berkeley CA

US-CL-CURRENT: 706/14; 706/10, 706/20, 706/47

31. Document ID: US 6075880 A

L8: Entry 31 of 49 File: USPT Jun 13, 2000

US-PAT-NO: 6075880

DOCUMENT-IDENTIFIER: US 6075880 A

TITLE: Method for detection of defects in the inspection of structured surfaces

DATE-ISSUED: June 13, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Kollhof; Dietmar Ilmenau DE Wienecke; Joachim Jena DE Franke; Karl-Heinz Ilmenau DE Graef; Michael Jena DE Kempe; Heiko Geraberg DE

US-CL-CURRENT: 382/141; 382/144, 382/147

Full Title Citation Front Review Classification Date Reference

32. Document ID: US 6028959 A

L8: Entry 32 of 49

File: USPT

Feb 22, 2000

Record List Display Page 15 of 22

US-PAT-NO: 6028959

DOCUMENT-IDENTIFIER: US 6028959 A

TITLE: Incremental ideographic character input method

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Wang; Chung-Ning San Jose CA
Platt; John C. Fremont CA
Matic; Nada P. San Jose CA

US-CL-CURRENT: 382/185; 382/187

Full Title	Citation F	ront Review	Classification	Reference	i e	Claims	KOMC	Drawa D

33. Document ID: US 5978497 A

L8: Entry 33 of 49 File: USPT Nov 2, 1999

US-PAT-NO: 5978497

DOCUMENT-IDENTIFIER: US 5978497 A

TITLE: Apparatus for the identification of free-lying cells

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Lee; Shih-Jong J. Bellevue WA Wilhelm; Paul S. Kirkland WA Bannister; Wendy R. Seattle WA Kuan; Chih-Chau L. Redmond WA Oh; Seho Mukilteo WA Meyer; Michael G. Seattle WA

US-CL-CURRENT: 382/133; 382/173, 382/190, 382/224

Full Title Citation Front Review C	lassification Date Reference	Claims KMC Draw Do

☐ 34. Document ID: US 597	74404 A	
L8: Entry 34 of 49	File: USPT	Oct 26, 1999

US-PAT-NO: 5974404

DOCUMENT-IDENTIFIER: US 5974404 A

TITLE: Method and apparatus for input classification using a neural network

Record List Display Page 16 of 22

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moed; Michael C. Norwalk CT Lee; Chih-Ping Danbury CT

US-CL-CURRENT: 706/25; 382/156, 706/20



File: USPT

Jul 20, 1999

US-PAT-NO: 5926566

L8: Entry 35 of 49

DOCUMENT-IDENTIFIER: US 5926566 A

TITLE: Incremental ideographic character input method

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Wang; Chung-Ning San Jose CA
Platt; John C. Fremont CA
Matic; Nada P. San Jose CA

US-CL-CURRENT: <u>382/185</u>; <u>382/187</u>, <u>382/189</u>

36. Document ID: US 5835901 A

L8: Entry 36 of 49 File: USPT Nov 10, 1998

US-PAT-NO: 5835901

DOCUMENT-IDENTIFIER: US 5835901 A

TITLE: Perceptive system including a neural network

DATE-ISSUED: November 10, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Duvoisin, III; Herbert Orlando FL
Beck; Hal E. Knoxville TN
Brown; Joe R. Austin TX
Bower; Mark Winder Park FL

US-CL-CURRENT: 706/19; 706/16, 706/25, 706/31

Full Title Citation Front Review Classification Date Reference

37. Document ID: US 5835630 A

L8: Entry 37 of 49

File: USPT

Nov 10, 1998

US-PAT-NO: 5835630

DOCUMENT-IDENTIFIER: US 5835630 A

TITLE: Modular time-varying two-dimensional filter

DATE-ISSUED: November 10, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Schweid; Stuart A.

Henrietta

NY

Williams; Dawn M.

Webster

NY

US-CL-CURRENT: 382/173; 382/176, 382/260, 382/261

38. Document ID: US 5828776 A

L8: Entry 38 of 49

File: USPT

Oct 27, 1998

US-PAT-NO: 5828776

DOCUMENT-IDENTIFIER: US 5828776 A

TITLE: Apparatus for identification and integration of multiple cell patterns

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

NAME

Bellevue WA

ZIP CODE

COUNTRY

Lee; Shih-Jong J.

Redmond

A

Kuan; Chih-Chau L.

Rediiona

WA

STATE

Bannister; Wendy R. Wilhelm; Paul S.

Seattle Kirkland WA WA

Meyer; Michael G.

Seattle

AW

US-CL-CURRENT: 382/133; 382/128, 382/224

Full Title Citation Front Review Classification Date Reference Claims ROMC Draw De

39. Document ID: US 5799101 A

L8: Entry 39 of 49

File: USPT

Aug 25, 1998

US-PAT-NO: 5799101

DOCUMENT-IDENTIFIER: US 5799101 A

TITLE: Method and apparatus for highly efficient computer aided screening

DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lee; Shih-Jong J. Bellevue WA
Oh; Seho Mukilteo WA
Patten; Stanley F. Issaquah WA
Nelson; Alan C. Redmond WA

Nelson; Larry A. Bellevue W.

US-CL-CURRENT: 382/133; 128/922, 356/42, 382/134

Full Title Citation Front Review Classification Date Reference	

40. Document ID: US 5778156 A

L8: Entry 40 of 49 File: USPT Jul 7, 1998

US-PAT-NO: 5778156

DOCUMENT-IDENTIFIER: US 5778156 A

TITLE: Method and system for implementing fuzzy image processing of image data

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Schweid; Stuart A. Henrietta NY Beikirch; Thomas R. Rochester NY Williams; Leon C. Walworth NY

US-CL-CURRENT: 706/52; 382/176, 382/261

Full Title	Citation Front	Review Classification	Date Reference		Claims	KWAC	Drawn De
***************************************	***************************************	······	~~~~				
□ 41.	Document ID:	: US 5765029 A				***************************************	***************************************
L8: Entry	41 of 49		File:	USPT	Jun	9,	1998

US-PAT-NO: 5765029

DOCUMENT-IDENTIFIER: US 5765029 A

TITLE: Method and system for fuzzy image classification

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Schweid; Stuart A.

Henrietta

NY

Shiau; Jeng-Nan

Webster

NY

Clark; Raymond J.

Webster

NY

US-CL-CURRENT: 706/52; 382/173, 706/900

Full Title Citation Front Review Classification Date Reference

42. Document ID: US 5751862 A

L8: Entry 42 of 49

File: USPT

May 12, 1998

US-PAT-NO: 5751862

DOCUMENT-IDENTIFIER: US 5751862 A

TITLE: Self-timed two-dimensional filter

DATE-ISSUED: May 12, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Williams; Dawn M.

Webster

NY

Schweid; Stuart A.

Henrietta

NY

US-CL-CURRENT: 382/260; 358/448, 382/254

Full Title Citation Front Review Classification Date Reference Citation Claims KielC Draw De

43. Document ID: US 5664067 A

L8: Entry 43 of 49

File: USPT

Sep 2, 1997

US-PAT-NO: 5664067

DOCUMENT-IDENTIFIER: US 5664067 A

TITLE: Method and apparatus for training a neural network

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

ZIP CODE

Moed; Michael C.

Norwalk

CT

Lee; Chih-Ping

Danbury

CT

US-CL-CURRENT: <u>706/25</u>; <u>706/28</u>, <u>706/31</u>

Full Title Citation Front Review Classification Date Reference

44. Document ID: US 5638491 A

L8: Entry 44 of 49

File: USPT

Jun 10, 1997

US-PAT-NO: 5638491

DOCUMENT-IDENTIFIER: US 5638491 A

TITLE: Method and apparatus for hierarchical input classification using a neural

network

DATE-ISSUED: June 10, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Moed; Michael C.

Ridgefield

CT

US-CL-CURRENT: 706/20; 382/156, 706/28

Full Title Citation Front Review Classification Date Reference Claims KMC Draw. Do

45. Document ID: US 5634084 A

L8: Entry 45 of 49

File: USPT

May 27, 1997

US-PAT-NO: 5634084

DOCUMENT-IDENTIFIER: US 5634084 A

TITLE: Abbreviation and acronym/initialism expansion procedures for a text to

speech reader

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Malsheen; Bathsheba J.

San Francisco

CA

Groner; Gabriel F.

Palo Alto

CA

Disner; Sandra F.

Los Angeles

CA

US-CL-CURRENT: <u>704/260</u>

-- Full Title Chation Front Review Classification Date Reference | Chatins Chaims KMC Draw, Do

46. Document ID: US 5627908 A

L8: Entry 46 of 49

File: USPT

May 6, 1997

US-PAT-NO: 5627908

Record List Display Page 21 of 22

DOCUMENT-IDENTIFIER: US 5627908 A

** See image for Certificate of Correction **

TITLE: Method for cytological system dynamic normalization

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lee; Shih-Jong J. Bellevue WA
Nelson; Alan C. Redmond WA
Nelson; Larry A. Bellevue WA
Youngmann; Carl E. Seattle WA
Frost; Keith L. Seattle WA

US-CL-CURRENT: 382/133; 382/128, 382/270

Fuil Title Citation Front Review Classification Date Reference Claims KNAC Draw De

47. Document ID: US 5452399 A

L8: Entry 47 of 49 File: USPT Sep 19, 1995

US-PAT-NO: 5452399

DOCUMENT-IDENTIFIER: US 5452399 A

** See image for <u>Certificate of Correction</u> **

TITLE: Method and apparatus for input <u>classification</u> using a neuron-based voting

scheme

DATE-ISSUED: September 19, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moed; Michael C. Norwalk CT

US-CL-CURRENT: 706/20; 382/156

Full Title Citation Front Review Classification Date Reference Claims KNIC Draw De

48. Document ID: US 5438629 A

L8: Entry 48 of 49 File: USPT Aug 1, 1995

US-PAT-NO: 5438629

DOCUMENT-IDENTIFIER: US 5438629 A

** See image for <u>Certificate of Correction</u> **

TITLE: Method and apparatus for input classification using non-spherical neurons

DATE-ISSUED: August 1, 1995

INVENTOR-INFORMATION:

NAME

CITY

STATE

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Moed; Michael C.

Norwalk

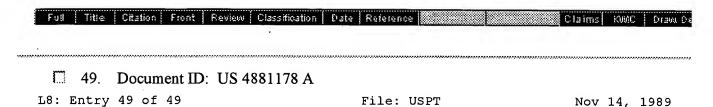
CT

Lee; Chih-Ping

Danbury

CT

US-CL-CURRENT: 382/156; 382/159, 706/20, 706/25



US-PAT-NO: 4881178

DOCUMENT-IDENTIFIER: US 4881178 A

TITLE: Method of controlling a <u>classifier</u> system

DATE-ISSUED: November 14, 1989

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Holland; John H.

Ann Arbor

MI

Burks; Arthur W.

Ann Arbor

MI

US-CL-CURRENT: 706/12; 706/45

Full Title Citation Front Review	Classification Date Reference Claims KMM	Dra
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Howa Indaz Bazoumze

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(Listing of Electronic Interface Buses with links to standards and specifications.)

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(The IETF Secretariat, run by The Corporation for National Research Initiatives with funding from the US government, maintains an index of Internet-Drafts.)

Nanotechnology

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("Peripheral Component Interconnect" specifications and white papers.)

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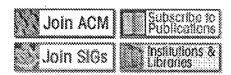
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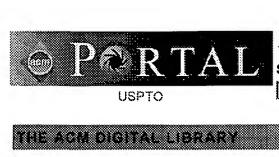
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Delegating classifiers

César Ferri, Peter Flach, José Hernández-Orallo

July 2004 Twenty-first international conference on Machine learning

Full text available: pdf(631.67 KB) Additional Information: full citation, abstract, references

A sensible use of classifiers must be based on the estimated reliability of their predictions. A cautious classifier would delegate the difficult or uncertain predictions to other, possibly more specialised, classifiers. In this paper we analyse and develop this idea of delegating classifiers in a systematic way. First, we design a two-step scenario where a first classifier chooses which examples to classify and delegates the difficult examples to train a second classifier. Secondly, we present ...

Holland classifier systems

Andreas Geyer-Schulz

June 1995 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on Applied programming languages, Volume 25 Issue 4

Full text available: pdf(1.28 MB)

Additional Information: full citation, abstract, references, citings, index terms

A Holland classifier system is an adaptive, general purpose machine learning system which is designed to operate in noisy environments with infrequent and often incomplete feedback. Examples of such environments are financial markets, stock management systems, or chemical processes. In financial markets, a Holland classifier system would develop trading strategies, in a stock management system order heuristics, and in a chemical plant it would perform process control. In this paper we descr ...

Keywords: bucket brigade, classifier system, genetic algorithm, machine learning, triggered operations

The click modular router

Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek August 2000 ACM Transactions on Computer Systems (TOCS), Volume 18 Issue 3

Full text available: pdf(376.31 KB)

Additional Information: full citation, abstract, references, citings, index terms

Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

Keywords: component systems, routers, software router performance

4 Attention and integration: Providing the basis for human-robot-interaction: a multimodal attention system for a mobile robot

Sebastian Lang, Marcus Kleinehagenbrock, Sascha Hohenner, Jannik Fritsch, Gernot A. Fink, Gerhard Sagerer

November 2003 Proceedings of the 5th international conference on Multimodal interfaces

Full text available: pdf(189.27 KB) Additional Information: full citation, abstract, references, index terms

In order to enable the widespread use of robots in home and office environments, systems with natural interaction capabilities have to be developed. A prerequisite for natural interaction is the robot's ability to automatically recognize when and how long a person's attention is directed towards it for communication. As in open environments several persons can be present simultaneously, the detection of the communication partner is of particular importance. In this paper we present an attention ...

Keywords: attention, human-robot-interaction, multi-modal person tracking

5 Posters: Image classification using hybrid neural networks

Chih-Fong Tsai, Ken McGarry, John Tait

July 2003 Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(199.31 KB) Additional Information: full citation, abstract, references, index terms

Use of semantic content is one of the major issues which needs to be addressed for improving image retrieval effectiveness. We present a new approach to classify images based on the combination of image processing techniques and hybrid neural networks. Multiple keywords are assigned to an image to represent its main contents, i.e. semantic content. Images are divided into a number of regions and colour and texture features are extracted. The first classifier, a self-organising map (SOM) clusters ...

Keywords: content-based image retrieval, image indexing/classification, neural networks

6 Email classification with co-training

Svetlana Kiritchenko, Stan Matwin

November 2001 Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research

Full text available: 📆 pdf(228.21 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The main problems in text classification are lack of labeled data, as well as the cost of labeling the unlabeled data. We address these problems by exploring co-training - an algorithm that uses unlabeled data along with a few labeled examples to boost the performance of a classifier. We experiment with co-training on the email domain. Our results show that the performance of co-training depends on the learning algorithm it uses. In particular, Support Vector Machines significantly outperforms N ...

⁷ A machine learning approach for the curation of biomedical literature: KDD Cup 2002

	(task 1) S. Sathiya Keerthi, Chong Jin Ong, Keng Boon Siah, David B. L. Lim, Wei Chu, Min Shi, David S. Edwin, Rakesh Menon, Lixiang Shen, Jonathan Y. K. Lim, Han Tong Loh December 2002 ACM SIGKDD Explorations Newsletter , Volume 4 Issue 2	
	Full text available: pdf(281.27 KB) Additional Information: full citation, abstract, references, citings	
	In this paper, we present an automated text classification system for the classification of biomedical papers. This classification is based on whether there is experimental evidence for the expression of molecular gene products for specified genes within a given paper. The system performs pre-processing and data cleaning, followed by feature extraction from the raw text. It subsequently classifies the paper using the extracted features with a Naïve Bayes Classifier. Our approach has made it	
	Keywords : Naïve Bayes Classifier, ROC curve, paper curation, pre-processing, text mining	
8	Short Papers: Classifying and assessing tremor movements for applications in man- machine intelligent user interfaces Dan Marius Dobrea, Horia Nicolai Teodorescu January 2004 Proceedings of the 9th international conference on Intelligent user interface	
	Full text available: pdf(355.53 KB) Additional Information: full citation, abstract, references, index terms	
	We introduce a new intelligent user interface (IUI) and, also, a new methodology to identify the fatigue state for healthy subjects. The fatigue state is determined by means of a new type of input IUI, named Virtual Joystick. The main goal is to prove the ability of the new IUI system to identify the user's state. We describe the method used in data collecting, the method used to highlight the existence of different physiological and psychic fatigue states reflected by the tremor signal, the cla	
	Keywords: multimodal interface, state recognition, support vector machine, virtual reality	
9	Industrial/government track: Frequent-subsequence-based prediction of outer membrane proteins Rong She, Fei Chen, Ke Wang, Martin Ester, Jennifer L. Gardy, Fiona S. L. Brinkman August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining Full text available: pdf(166.07 KB) Additional Information: full citation, abstract, references, index terms	
	A number of medically important disease-causing bacteria (collectively called Gramnegative bacteria) are noted for the extra "outer" membrane that surrounds their cell. Proteins resident in this membrane (outer membrane proteins, or OMPs) are of primary research interest for antibiotic and vaccine drug design as they are on the surface of the bacteria and so are the most accessible targets to develop new drugs against. With the development of genome sequencing technology and bioinformatics, bio Keywords: association rule, classification, outer membrane protein, subcellular	
	localization, support vector machine	
10	Research track: Mining concept-drifting data streams using ensemble classifiers Haixun Wang, Wei Fan, Philip S. Yu, Jiawei Han August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining	

Full text available: pdf(234.13 KB) Additional Information: full citation, abstract, references, citings, index

terms

Recently, mining data streams with concept drifts for actionable insights has become an important and challenging task for a wide range of applications including credit card fraud protection, target marketing, network intrusion detection, etc. Conventional knowledge discovery tools are facing two challenges, the overwhelming volume of the streaming data, and the concept drifts. In this paper, we propose a general framework for mining concept-drifting data streams using weighted ensemble classifi ...

Keywords: classifier, classifier ensemble, concept drift, data streams

11	Intrusion and privacy: Exploiting unlabeled data in ensemble methods Kristin P. Bennett, Ayhan Demiriz, Richard Maclin	
	July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining	
	Full text available: pdf(719.46 KB) Additional Information: full citation, abstract, references, index terms	
	An adaptive semi-supervised ensemble method, ASSEMBLE, is proposed that constructs classification ensembles based on both labeled and unlabeled data. ASSEMBLE alternates between assigning "pseudo-classes" to the unlabeled data using the existing ensemble and constructing the next base classifier using both the labeled and pseudolabeled data. Mathematically, this intuitive algorithm corresponds to maximizing the classification margin in hypothesis space as measured on both the labeled and unlabel	
	Keywords: boosting, classification, ensemble learning, semi-supervised learning	
12	Learning methods: Interactive deduplication using active learning Sunita Sarawagi, Anuradha Bhamidipaty July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining	
	Full text available: pdf(1.14 MB) Additional Information: <u>full citation</u> , <u>abstract</u> , <u>references</u> , <u>citings</u> , <u>index</u> <u>terms</u>	
,	Deduplication is a key operation in integrating data from multiple sources. The main challenge in this task is designing a function that can resolve when a pair of records refer to the same entity in spite of various data inconsistencies. Most existing systems use hand-coded functions. One way to overcome the tedium of hand-coding is to train a classifier to distinguish between duplicates and non-duplicates. The success of this method critically hinges on being able to provide a <i>covering and</i>	
13	Magical thinking in data mining: lessons from ColL challenge 2000 Charles Elkan	
	August 2001 Proceedings of the seventh ACM SIGKDD international conference on	
	Knowledge discovery and data mining	
٠	Full text available: pdf(602.56 KB) Additional Information: full citation, abstract, references, citings, index terms	
	CoIL challenge 2000 was a supervised learning contest that attracted 43 entries. The authors of 29 entries later wrote explanations of their work. This paper discusses these reports and reaches three main conclusions. First, naive Bayesian classifiers remain competitive in practice: they were used by both the winning entry and the next best entry. Second, identifying feature interactions correctly is important for maximizing predictive accuracy: this was the difference between the winning classi	

14 Predictive modeling in automotive direct marketing: tools, experiences and open issues

Wendy Gersten, Rüdiger Wirth, Dirk Arndt

August 2000 Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(334.76 KB) Additional Information: full citation, references, citings, index terms

Keywords: CRISP-DM, Clementine, data mining process, direct marketing, evaluation measures

15 The Click modular router

Robert Morris, Eddie Kohler, John Jannotti, M. Frans Kaashoek

December 1999 ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles, Volume 33 Issue 5

Full text available: pdf(1.46 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Click is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called *elements*. Individual elements implement simple router functions like packet classification, queueing, scheduling, and interfacing with network devices. Complete configurations are built by connecting elements into a graph; packets flow along the graph's edges. Several features make individual elements more powerful and complex configuration ...

16 A simulation study of IP switching

Steven Lin, Nick McKeown

October 1997 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication, Volume 27 Issue 4

Full text available: pdf(1.47 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Recently there has been much interest in combining the speed of layer-2 switching with the features of layer-3 routing. This has been prompted by numerous proposals, including: IP Switching [1], Tag Switching [2], ARIS [3], CSR [4], and IP over ATM [5]. In this paper, we study IP Switching and evaluate the performance claims made by Newman et al in [1] and [6]. In particular, using ten network traces, we study how well IP Switching performs with traffic found in campus, corporate, and Internet S ...

17 Industrial and practical experience track paper session 2: The infocious web search engine: improving web searching through linguistic analysis

Alexandros Ntoulas, Gerald Chao, Junghoo Cho

May 2005 Special interest tracks and posters of the 14th international conference on World Wide Web

Full text available: pdf(227.88 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present the Infocious Web search engine [23]. Our goal in creating Infocious is to improve the way people find information on the Web by resolving ambiguities present in natural language text. This is achieved by performing linguistic analysis on the content of the Web pages we index, which is a departure from existing Web search engines that return results mainly based on keyword matching. This additional step of linguistic processing gives Infocious two main advantages. First, ...

Keywords: concept extraction, crawling, indexing, information retrieval, language analysis, linguistic analysis of web text, natural language processing, part-of-speech tagging, phrase identification, web search engine, web searching, word sense disambiguation

18 Long papers: personal assistants: Intelligent data entry assistant for XML using ensemble learning

Danico Lee, Costas Tsatsoulis

January 2005 Proceedings of the 10th international conference on Intelligent user interfaces

Full text available: pdf(183.76 KB) Additional Information: full citation, abstract, references, index terms

XML has emerged as the primary standard of data representation and data exchange [13]. Although many software tools exist to assist the XML implementation process, data must be manually entered into the XML documents. Current form filling technologies are mostly for simple data entry and do not provide support for the complexity and nested structures of XML grammars. This paper presents SmartXAutofill, an intelligent data entry assistant for predicting and automating inputs for XML documents bas ...

Keywords: XML, autofill, ensemble learning, machine learning

19 Technical session 15: WWW image retrieval: A bootstrapping framework for annotating and retrieving WWW images

Huamin Feng, Rui Shi, Tat-Seng Chua

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

Full text available: pdf(243.08 KB) Additional Information: full citation, abstract, references, index terms

Most current image retrieval systems and commercial search engines use mainly text annotations to index and retrieve WWW images. This research explores the use of machine learning approaches to automatically annotate WWW images based on a predefined list of concepts by fusing evidences from image contents and their associated HTML text. One major practical limitation of employing supervised machine learning approaches is that for effective learning, a large set of labeled training samples is ...

Keywords: WWW images, bootstrapping, co-training, image annotation

20 Learning Ensembles from Bites: A Scalable and Accurate Approach Nitesh V. Chawla, Lawrence O. Hall, Kevin W. Bowyer, W. Philip Kegelmeyer December 2004 The Journal of Machine Learning Research, Volume 5

Full text available: pdf(3.34 MB) Additional Information: full citation, abstract, index terms

Bagging and boosting are two popular ensemble methods that typically achieve better accuracy than a single classifier. These techniques have limitations on massive data sets, because the size of the data set can be a bottleneck. Voting many classifiers built on small subsets of data ("pasting small votes") is a promising approach for learning from massive data sets, one that can utilize the power of boosting and bagging. We propose a framework for building hundreds or thousands of such classifie ...

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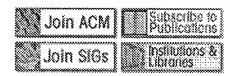
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On the intrinsic complexity of language identification

Sanjay Jain, Arun Sharma

July 1994 Proceedings of the seventh annual conference on Computational learning theory

Full text available: mpdf(938.98 KB)

Additional Information: full citation, abstract, references, citings, index

A new investigation of the complexity of language identification is undertaken using the notion of reduction from recursion theory and complexity theory. The approach, referred to as the intrinsic complexity of language identification, employs notions of "weak" and "strong" reduction between learnable classes of languages. The intrinsic complexity of several classes are considered and the results agree with the intuitive difficulty of learning these classes. Several ...

Scheduling for power reduction in a real-time system

Jason J. Brown, Danny Z. Chen, Garrison W. Greenwood, Xiaobo Hu, Richard W. Taylor August 1997 Proceedings of the 1997 international symposium on Low power electronics and design

Full text available: pdf(583.61 KB) Additional Information: full citation, references, citings

Data base or data maze? An exploration of entry points

Susan Brewer

January 1968 Proceedings of the 1968 23rd ACM national conference

Full text available: pdf(468.10 KB) Additional Information: full citation, abstract, citings, index terms

What is a data base? An answer to this question could go something like this: "a collection of data, organized in some fashion, which is both the source and the repository of its creators' knowledge of a given topic". A library can be a data base; so can a filing cabinet, or a general ledger. However, the current discussion deals primarily with computerized data bases, consisting of individually accessible elements stored on random access storage devices. Within a dat ...

Data abstraction in SESPOOL

Glen E. Newton, J. Denbigh Starkey January 1977 Proceedings of the 1977 annual conference

Full text available:

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full citation, abstract, references, index terms

SESPOOL is a Simple Extensible Systems PrOgramming Oriented Language whose design goals include easy compilation and an efficient runtime environment. SESPOOL's data definition facilities permit programmers to easily define new data types and operations on them which are appropriate for operating systems and language translators in ...

Keywords: Abstract data types, Extensibility, Generic procedures, SESPOOL

Degrees of translatability and canonical forms in program schemas: Part I Ashok K. Chandra April 1974 Proceedings of the sixth annual ACM symposium on Theory of computing

Full text available: pdf(780.27 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

We define a measure of the generality of the control structure of a program schema. This imposes a partial ordering on program schemas, and leads to a concept of the "difficulty" of a programming problem. In this sense there exists a "hardest" flowchart program, recursive program etc. Some earlier proofs can also be simplified and/or clarified by this approach.

Computer-aided analysis and design of information systems
J. F. Nunamaker, Benn R. Konsynski, Thomas Ho, Carl Allen Singer
December 1976 Communications of the ACM, Volume 19 Issue 12

Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings

This paper describes the use of computer-aided analysis for the design and development of an integrated financial management system by the Navy Material Command Support Activity (NMCSA). Computer-aided analysis consists of a set of procedures and computer programs specifically designed to aid in the process of applications software design, computer selection and performance evaluation. There are four major components: Problem Statement Language, Problem Statement Analyzer, Generator of Alte ...

Keywords: accurately defined systems, computer-aided analysis, information systems, logical system design, physical system design, problem statement analyzer, problem statement language, systems optimization and design algorithm

An approach to multidimensional data array processing by computer Mervin E. Muller

February 1977 Communications of the ACM, Volume 20 Issue 2

Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, citings

Some recent work on the development of general-purpose computer-based statistical and data processing capabilities for handling multidimensional arrays of data is presented. Attention is first given to some of the general problems of multidimensional table and array processing. This is followed by a summary of some recent developments in array processing capabilities at the World Bank, in particular, the system identified as WRAPS (World Bank Retrieval and Array Processing System).

Keywords: array processing, computing techniques, cross tabulation, data processing, data retrieval, statistical analysis, syntax for data structures, table processing, time series

8 PL/I list processing Harold W. Lawson June 1967

Communications of the ACM, Volume 10 Issue 6

Full text available: Todf(1.18 MB)

Additional Information: full citation, references, citings, index terms

Knowledge-based programs

Ronald Fagin, Yoram Moses, Joseph Y. Halpern, Moshe Y. Vardi

August 1995 Proceedings of the fourteenth annual ACM symposium on Principles of distributed computing

Full text available: pdf(1,27 MB)

Additional Information: full citation, references, citings, index terms

10 LogP: towards a realistic model of parallel computation

David Culler, Richard Karp, David Patterson, Abhijit Sahay, Klaus Erik Schauser, Eunice Santos, Ramesh Subramonian, Thorsten von Eicken

July 1993 ACM SIGPLAN Notices, Proceedings of the fourth ACM SIGPLAN symposium on Principles and practice of parallel programming, Volume 28 Issue 7

Full text available: pdf(1.51 MB)

Additional Information: full citation, abstract, references, citings, index terms

A vast body of theoretical research has focused either on overly simplistic models of parallel computation, notably the PRAM, or overly specific models that have few representatives in the real world. Both kinds of models encourage exploitation of formal loopholes, rather than rewarding development of techniques that yield performance across a range of current and future parallel machines. This paper offers a new parallel machine model, called LogP, that reflects the critical technology tre ...

Keywords: PRAM, complexity analysis, massively parallel processors, parallel algorithms, parallel models

Results 1 - 10 of 10

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¹ On the intrinsic complexity of language identification

window

Sanjay Jain, Arun Sharma

July 1994 Proceedings of the seventh annual conference on Computational learning theory

Full text available: pdf(938.98 KB) Additional Information: full citation, abstract, references, citings, index terms

A new investigation of the complexity of language identification is undertaken using the notion of reduction from recursion theory and complexity theory. The approach, referred to as the intrinsic complexity of language identification, employs notions of "weak" and "strong" reduction between learnable classes of languages. The intrinsic complexity of several classes are considered and the results agree with the intuitive difficulty of learning these classes. Several ...

² An approach to multidimensional data array processing by computer Mervin E. Muller



February 1977 Communications of the ACM, Volume 20 Issue 2

Full text available: mpdf(1.80 MB)

Additional Information: full citation, abstract, references, citings

Some recent work on the development of general-purpose computer-based statistical and data processing capabilities for handling multidimensional arrays of data is presented. Attention is first given to some of the general problems of multidimensional table and array processing. This is followed by a summary of some recent developments in array processing capabilities at the World Bank, in particular, the system identified as WRAPS (World Bank Retrieval and Array Processing System).

Keywords: array processing, computing techniques, cross tabulation, data processing, data retrieval, statistical analysis, syntax for data structures, table processing, time series

3 Degrees of translatability and canonical forms in program schemas: Part I Ashok K. Chandra



April 1974 Proceedings of the sixth annual ACM symposium on Theory of computing

Full text available: pdf(780.27 KB) Additional Information: full citation, abstract, references, citings, index terms

We define a measure of the generality of the control structure of a program schema. This imposes a partial ordering on program schemas, and leads to a concept of the "difficulty" of a programming problem. In this sense there exists a "hardest" flowchart program, recursive program etc. Some earlier proofs can also be simplified and/or clarified by this approach.

4	LogP: towards a realistic model of parallel computation David Culler, Richard Karp, David Patterson, Abhijit Sahay, Klaus Erik Schauser, Eunice Santos, Ramesh Subramonian, Thorsten von Eicken July 1993 ACM SIGPLAN Notices, Proceedings of the fourth ACM SIGPLAN symposium on Principles and practice of parallel programming, Volume 28 Issue 7 Full text available: Ddf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms	
	A vast body of theoretical research has focused either on overly simplistic models of parallel computation, notably the PRAM, or overly specific models that have few representatives in the real world. Both kinds of models encourage exploitation of formal loopholes, rather than rewarding development of techniques that yield performance across a range of current and future parallel machines. This paper offers a new parallel machine model, called LogP, that reflects the critical technology tre	
	Keywords : PRAM, complexity analysis, massively parallel processors, parallel algorithms, parallel models	
5	Computer-aided analysis and design of information systems J. F. Nunamaker, Benn R. Konsynski, Thomas Ho, Carl Allen Singer December 1976 Communications of the ACM, Volume 19 Issue 12	
	Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings	
	This paper describes the use of computer-aided analysis for the design and development of an integrated financial management system by the Navy Material Command Support Activity (NMCSA). Computer-aided analysis consists of a set of procedures and computer programs specifically designed to aid in the process of applications software design, computer selection and performance evaluation. There are four major components: Problem Statement Language, Problem Statement Analyzer, Generator of Alte	
	Keywords : accurately defined systems, computer-aided analysis, information systems, logical system design, physical system design, problem statement analyzer, problem statement language, systems optimization and design algorithm	
6	PL/I list processing Harold W. Lawson June 1967 Communications of the ACM, Volume 10 Issue 6	
	Full text available: pdf(1.18 MB) Additional Information: full citation, references, citings, index terms	
7	Scheduling for power reduction in a real-time system Jason J. Brown, Danny Z. Chen, Garrison W. Greenwood, Xiaobo Hu, Richard W. Taylor August 1997 Proceedings of the 1997 international symposium on Low power electronics and design Full text available: pdf(583.61 KB) Additional Information: full citation, references, citings	

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STIC Searcher Seaffrey 81-	Lege Phone 23500	
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STIC Search Report

STIC Database Tracking Number

TO: Michael B Holmes Location: RND 5A49

Art Unit: 2121

Friday, June 17, 2005

Case Serial Number: 10/698171

From: Geoffrey St. Leger

Location: EIC 2100 Randolph-4B31 Phone: 23450

geoffrey.stleger@uspto.gov

Search Notes

Dear Examiner Holmes,

Attached please find the results of your search request for application 10/698171. I searched Dialog's patent files, technical databases and general files.

Please let me know if you have any questions.

Regards.

Geoffrey St.(L



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             ON OR CATEGORIZ? OR CATEGORIS?)
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S6
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S7

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S6 NOT PY=1998:2005

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          E.I. No: EIP95112911994
  Title: Method for fuzzy rules extraction directly from numerical data and
its application to pattern classification
  Author: Abe, Shigeo; Lan, Ming-Shong
  Corporate Source: Hitachi, Ltd, Ibaraki, Jpn
  Source: IEEE Transactions on Fuzzy Systems v 3 n 1 Feb 1995. p 18-28
  Publication Year: 1995
  CODEN: IEFSEV
                  ISSN: 1063-6706
  Language: English
  Document Type: JA; (Journal Article)
                                         Treatment: A; (Applications); T;
(Theoretical)
  Journal Announcement: 9512W5
  Abstract: In this paper, we discuss a new method for extracting fuzzy
rules directly from numerical input- output data for pattern
classification . Fuzzy rules with variable fuzzy regions are defined by
activation hyperboxes which show the existence region of data for a class and inhibition hyperboxes which inhibit the existence of data for that
class. These rules are extracted from numerical data by recursively
resolving overlaps between two classes. Then, optimal input variables for
the rules are determined using the number of extracted rules as a
criterion. The method is compared with neural networks using the Fisher
iris data and a license plate recognition system for various examples.
(Author abstract) 11 Refs.
  Descriptors: *Fuzzy sets; Pattern recognition; Neural networks; Recursive
functions; Knowledge acquisition; Inference engines
  Identifiers: Fuzzy rules extraction; Pattern classification; Numerical
data; Fisher iris data; License plate recognition system
  Classification Codes:
          (Expert Systems)
        (Combinatorial Mathematics, Includes Graph Theory, Set Theory);
723.5 (Computer Applications); 723.4 (Artificial Intelligence); 721.1
(Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory,
Programming Theory)
  921 (Applied Mathematics); 723 (Computer Software); 721 (Computer
Circuits & Logic Elements)
  92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING)
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DIALOG(R) File
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.
          E.I. No: EIP95102884231
04264939
  Title: Rule-based machine learning of spatial data concepts
  Author: Stearns, Steve; St. Clair, Daniel C.
  Corporate Source: Southwestern Bell Telephone Co
  Conference Title: Proceedings of the 1995 ACM Symposium on Applied
Computing
  Conference
                Location:
                             Nashville,
                                            TN,
                                                   USA
                                                         Conference
                                                                        Date:
19950226-19950228
  E.I. Conference No.: 43729
  Source: Proceedings of the ACM Symposium on Applied Computing 1995. ACM,
New York, NY, USA. p 242-247
  Publication Year: 1995
  CODEN: 002168
  Language: English
  Document Type: CA; (Conference Article)
                                            Treatment: T; (Theoretical)
  Journal Announcement: 9512W1
  Abstract: Extensive work has been done on interfacing expert systems with
spatial systems such as CAD (computer aided drafting) or GIS (geographic
information systems). Likewise, much work has been done on the use of
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machine learning algorithms to mechanically build the rules which are input into expert systems. This paper explores one particular combination of these areas of research. The rule-based learning algorithm AQ15 was used to classify spatial data from a GIS. A variety of miscellaneous annotation features were classified and input into AQ15 as training data. In order to produce rules which would allow an expert system to reclassify the annotations, AQ15 would need to learn spatial concepts such as ?parallel' or ?close-to.' The resulting knowledge base was used to validate existing geographic data. (Author abstract) 8 Refs.

Descriptors: *Expert systems; Learning systems; Learning algorithms; Classification (of information); Data handling; Geographic information systems; Data structures

Identifiers: Rule based learning algorithm AQ15; Spatial data concepts Classification Codes:

723.4.1 (Expert Systems)

723.4 (Artificial Intelligence); 903.1 (Information Sources & Analysis)

723.2 (Data Processing); 903.3 (Information Retrieval & Use)

723 (Computer Software); 903 (Information Science)

72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

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DIALOG(R) File 8:Ei Compendex(R)
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04105581 E.I. No: EIP95032617360

Title: Handwritten numeral recognition using self-organizing maps and fuzzy rules

Author: Chi, Zheru; Wu, Jing; Yan, Hong Corporate Source: Univ of Sydney, Aust

Source: Pattern Recognition v 28 n 1 Jan 1995. p 59-66

Publication Year: 1995

CODEN: PTNRA8 ISSN: 0031-3203

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9505W2

Abstract: Handwritten numeral recognition using combined self-organizing maps (SOMs) and fuzzy rules is presented in this paper. In the learning phase, the SOM algorithm is used to produce prototypes which together with corresponding variances are used to determine fuzzy regions and membership functions. Fuzzy rules are then generated by learning from training patterns. In the recognition stage, an input pattern is classified by a fuzzy rule based classifier. An unsure pattern is then re-classified by an SOM classifier. Experiments on a database of 20,852 handwritten numerals (10,426 used for training and a further 10,426 for testing) show that this combination technique achieves satisfactory results in terms of classification accuracy and time, and computer memory required. (Author abstract) 14 Refs.

Descriptors: *Character recognition; Neural networks; Fuzzy sets; Algorithms; Learning systems; Membership functions; Database systems; Data storage equipment

Identifiers: Handwritten numeral recognition; Self organizing maps; Fuzzy rules; Classification

Classification Codes:

723.5 (Computer Applications); 723.4 (Artificial Intelligence); 921.4 (Combinatorial Mathematics, Includes Graph Theory, Set Theory); 921.6 (Numerical Methods); 723.3 (Database Systems); 722.2 (Computer Peripheral Equipment)

723 (Computer Software); 921 (Applied Mathematics); 722 (Computer Hardware)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

7/5/4 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv. E.I. No: EIP95022592905 04095027 Title: Neural-network-based fuzzy classifier Author: Uebele, Volkmar; Abe, Shigeo; Lan, Ming-Shong Corporate Source: Hitachi Ltd, Ibaraki-ken, Jpn Source: IEEE Transactions on Systems, Man and Cybernetics v 25 n 2 Feb 1995. p 353-361 Publication Year: 1995 ISSN: 0018-9472 CODEN: ISYMAW Language: English Document Type: JA; (Journal Article) Treatment: T; (Theoretical) Journal Announcement: 9505W1 Abstract: In this paper, a new technique for generating fuzzy rules for pattern classification is discussed. First, separation hyperplanes for classes are extracted from a trained neural network. Then, for each class, convex existence regions in the input space are approximated by shifting these hyperplanes in parallel using the training data set for the classes. Using fuzzy rules defined for each class, input data are directly classified without the use of the neural network. This method is applied to a number recognition system as well as to a blood cell classification system. Classifying performance is compared with that obtained with neural networks. (Author abstract) 12 Refs. Descriptors: *Fuzzy sets; Neural networks; Pattern recognition; Feature extraction; Approximation theory; Learning systems; Pattern recognition systems; Performance; Knowledge acquisition; Algorithms Identifiers: Fuzzy classifiers; Fuzzy rules; Training data sets; Number recognition systems; Blood cell classification systems; Classification performance Classification Codes: (Combinatorial Mathematics, Includes Graph Theory, Set Theory); 921.4 723.5 (Computer Applications); 921.6 (Numerical Methods); 723.4 (Artificial Intelligence); 723.1 (Computer Programming) 921 (Applied Mathematics); 723 (Computer Software) 92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING) (Item 5 from file: 8) DIALOG(R) File 8:Ei Compendex(R) (c) 2005 Elsevier Eng. Info. Inc. All rts. reserv. 04064287 E.I. No: EIP95022564972 Title: Fuzzy rules extraction directly from numerical data for function approximation Author: Abe, Shigeo; Lan, Ming-Shong Corporate Source: Hitachi, Ltd, Hitachi, Jpn Source: IEEE Transactions on Systems, Man and Cybernetics v 25 n 1 Jan 1995. p 119-129 Publication Year: 1995 CODEN: ISYMAW . ISSN: 0018-9472 Language: English Document Type: JA; (Journal Article) Treatment: A; (Applications); T; (Theoretical) Journal Announcement: 9504W3 Abstract: In our previous work we developed a method for extracting fuzzy rules directly from numerical input- output data for pattern classification . In this paper we extend the method to function approximation. For function approximation, first, the universe of discourse of an output variable is divided into multiple intervals, and each interval is treated as a class. Then the same as for pattern classification, using the input data for each interval, fuzzy rules are recursively defined by activation hyperboxes which show the existence region of the data for the interval and inhibition hyperboxes which inhibit the existence region of data for that interval. The approximation accuracy of the fuzzy system

derived by this method is empirically studied using an operation learning application of a water purification plant. Additionally, we compare the approximation performance of the fuzzy system with the function approximation approach based on neural networks. (Author abstract) 8 Refs. Descriptors: *Approximation theory; Fuzzy sets; Input output programs; Pattern recognition; Classification (of information); Data processing; Learning systems; Neural networks

Identifiers: Fuzzy rules; Numerical data; Function approximation; Pattern

Identifiers: Fuzzy rules; Numerical data; Function approximation; Pattern classification; Variable fuzzy regions; Activation hyperbox Classification Codes:

921.6 (Numerical Methods); 723.1 (Computer Programming); 723.2 (Data Processing); 723.4 (Artificial Intelligence)

921 (Applied Mathematics); 723 (Computer Software)

92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING)

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03907690 E.I. No: EIP94061318967

 $\begin{tabular}{lll} Title: Function & approximator using fuzzy rules extracted directly from numerical data \\ \end{tabular}$

Author: Abe, Shigeo; Lan, Ming-Shong

Corporate Source: Hitachi, Ltd, Ibaraki, Jpn

Conference Title: Proceedings of 1993 International Joint Conference on Neural Networks . Part 2 (of 3)

Conference Location: Nagoya, Jpn Conference Date: 19931025-19931029 Sponsor: ENNS; INNS; IEEE; SICE; IEICE; Japan Neural Network Society E.I. Conference No.: 20273

Source: Proceedings of the International Joint Conference on Neural Networks v 2 1993. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA. p 1887-1892

Publication Year: 1993

CODEN: 850FAE ISBN: 0-7803-1421-2

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical); A; (Applications)

Journal Announcement: 9409W3

Abstract: In our previous work we **developed** a method for extracting fuzzy rules directly from numerical input- output data for pattern classification. In this paper we extend the method to function approximation. For function approximation, first, the universe of discourse of an output variable is divided into multiple intervals, and each interval is treated as a class. Then the same as for pattern classification, using the input data for each interval, fuzzy rules are recursively defined by activation hyperboxes which show the existence region of the data for the interval and inhibition hyperboxes which inhibit the existence region of data for that interval. The approximation accuracy of the fuzzy system derived by this method empirically studied using an operation learning application of a water purification plant. Additionally, we compare the approximation approach based on neural networks. (Author abstract) 8 Refs.

Descriptors: *Pattern recognition; Neural networks; Approximation theory; Fuzzy sets

Identifiers: Fuzzy rules; Function approximators

Classification Codes:

723.4 (Artificial Intelligence); 741.1 (Light/Optics); 723.1 (Computer Programming); 921.6 (Numerical Methods)

723 (Computer Software); 741 (Optics & Optical Devices); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 74 (OPTICAL TECHNOLOGY); 92 (ENGINEERING MATHEMATICS)

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(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.
           E.I. No: EIP94041253305
  Title: Extracting fuzzy rules from pattern classification neural networks
  Author: Uebele, Volkmar; Abe, Shigeo; Lan, Ming-Shong
  Corporate Source: Hitachi, Ltd, Ibaraki-ken, Jpn
  Conference Title: Proceedings of the IEEE International Conference on
Systems, Man and Cybernetics. Part 2 (of 5)
  Conference Location: Le Touquet, Fr
                                         Conference Date: 19931017-19931020
  E.I. Conference No.: 20056
  Source: Proceedings of the IEEE International Conference on Systems, Man
and Cybernetics v 2 1993. Publ by IEEE, IEEE Service Center, Piscataway,
NJ, USA, 93CH3242-5. p 578-583
  Publication Year: 1993
  CODEN: PICYE3
                                    ISBN: 0-7803-0911-1
                  ISSN: 0884-3627
  Language: English
  Document Type: CA; (Conference Article)
                                            Treatment: A; (Applications); T
; (Theoretical)
  Journal Announcement: 9405W2
  Abstract: In this paper, a new technique for generating fuzzy rules for
pattern classification is discussed. First, separation hyperplanes for
classes are extracted from a trained neural network. Then, for each class,
convex existence regions in the input space are approximated by shifting
these hyperplanes in parallel using the training data set for the classes.
Using fuzzy rules defined for each class, input data are directly classified without use of the neural network. This method is applied to a
number recognition system as well as to a blood cell classification system;
and their performance is compared with that gotten with neural networks.
(Author abstract) 12 Refs.
  Descriptors: *Fuzzy sets; Neural networks; Pattern recognition;
Classification (of information); Data acquisition; Approximation theory;
Decision theory; Systems analysis
  Identifiers: Separation hyperplanes; Pattern classification neural
networks; Number recognition system; Blood cell classification
  Classification Codes:
  921.4 (Combinatorial Mathematics, Includes Graph Theory, Set Theory);
723.4 (Artificial Intelligence); 723.2 (Data Processing); 903.1
(Information Sources & Analysis); 921.6
                                         (Numerical Methods)
  921 (Applied Mathematics); 723 (Computer Software); 903
Science)
      (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING); 90
(GENERAL ENGINEERING)
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03473975
          E.I. Monthly No: EIM9208-043298
  Title: An experiment in machine learning of redundant knowledge.
  Author: Kononenko, Igor
                     Fac of Electr & Comput Eng, Univ of Ljubljana,
 Corporate Source:
Yugoslavia
  Conference Title: Proceedings of the 6th Mediterranean Electrotechnical
Conference - Melecon '91
  Conference
              Location: Ljubljana, Slovenia, Yugosl
                                                           Conference Date:
19910522
  Sponsor: IEEE Region 8
  E.I. Conference No.: 16880
  Source: Melecon. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA
(IEEE cat n 91CH2964-5). p 1146-1149
  Publication Year: 1991
  ISBN: 0-87942-655-1
```

Language: English

Document Type: PA; (Conference Paper) Treatment: T; (Theoretical); A; (Applications)

Journal Announcement: 9208

Abstract: Experiments in generating redundant diagnostic rules from examples in three medical domains are described. The idea is to generate a number of sets of decision rules (theories) using known inductive learning techniques. Each set is applied when classifying new objects . An object is classified to the class that is preferred by the majority of theories. The redundant knowledge with voting principle significantly outperformed the one theory principle. In addition, redundant knowledge generated in this way provides the possibility of better explanations, which is one of weak points of the inductively generated (nonredundant) sets of decision rules. 19 Refs.

Descriptors: *EXPERT SYSTEMS--*Knowledge Bases; DECISION THEORY AND ANALYSIS; REDUNDANCY; LEARNING SYSTEMS; DATA PROCESSING -- Medical Information

Identifiers: REDUNDANT KNOWLEDGE; MACHINE LEARNING Classification Codes:

723 (Computer Software); 731 (Automatic Control Principles); 922 (Statistical Methods); 461 (Biotechnology)

72 (COMPUTERS & DATA PROCESSING); 73 (CONTROL ENGINEERING); 92 (ENGINEERING MATHEMATICS); 46 (BIOENGINEERING)

7/5/9 (Item 9 from file: 8) DIALOG(R) File 8:Ei Compendex(R) (c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

03095601 E.I. Monthly No: EIM9107-035140

Title: Use of embedded optical fiber sensors for acoustic emission detection within composite materials.

Author: Maslouhi, A.; Proulx, D.; Roy, C.; Liu, K.; McEwen, K.; Measures, R. M.; Zimcik, D. G.

Corporate Source: Univ de Sherbrooke, Sherbrooke, QUE, Can Conference Title: 36th International SAMPE Symposium and Exhibition Conference Location: San Diego, CA, USA Conference Date: 19910415 Sponsor: SAMPE, Sacramento Chapter E.I. Conference No.: 14756

Source: International SAMPE Symposium and Exhibition v 36 pt 1. Publ by SAMPE, Covina, CA, USA. p 259-271

Publication Year: 1991

CODEN: ISSEEG ISSN: 0891-0138

Language: English

Document Type: PA; (Conference Paper) Treatment: X; (Experimental) Journal Announcement: 9107

Abstract: This paper describes the use of miniature fiber optic sensors, embedded within a carbon-epoxy composite material specimen, to measure acoustic emissions emanating from within the material. The response to the acoustic signal is transmitted from the sensor through the optical fibers which can be integrated directly into the material during fabrication. The measured signals are analyzed to extract detailed information on frequency content, amplitude, and other characteristics which are then used to classify the data according to damage type. Classified data is used to establish rules on which automated pattern recognition data is then algorithms can operate for subsequently sensed acoustic emissions. Using this technique results are presented and compared for both a standard broadband piezolectric sensor and fiber optic Michelson interferometric sensor. (Author abstract) 17 Refs.

Descriptors: *COMPOSITE MATERIALS--*Acoustic Emissions; ACOUSTIC EMISSION TESTING; SENSORS; OPTICAL FIBERS; EPOXY RESINS; PATTERN RECOGNITION Identifiers: FIBER OPTIC SENSORS; PIEZOELECTRIC SENSOR; FIBER OPTIC MICHELSON INTERFEROMETRIC SENSOR; FUSTCLUSTER PROCEDURE Classification Codes:

(Plastics, Products & Applications); 421 (Materials Properties);

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(Materials Testing); 741 (Optics & Optical Devices); 723 (Computer
Software)
 81 (CHEMICAL PROCESS INDUSTRIES); 42 (MATERIALS PROPERTIES & TESTING);
74 (OPTICAL TECHNOLOGY); 72 (COMPUTERS & DATA PROCESSING)
            (Item 10 from file: 8)
 7/5/10
DIALOG(R) File
                8:Ei Compendex(R)
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03094997
           E.I. Monthly No: EIM9107-034536
  Title: Table recognition for automated document entry system.
  Author: Kojima, Haruhiko; Akiyama, Teruo
  Corporate Source: NTT Human Interface Lab, Kanagawa, Jpn
  Conference Title: High-Speed Inspection Architectures, Barcoding, and
Character Recognition
                                         Conference Date: 19901105
  Conference Location: Boston, MA, USA
  Sponsor: SPIE
  E.I. Conference No.: 14631
  Source: Proceedings of SPIE - The International Society for Optical
Engineering v 1384. Publ by Int Soc for Optical Engineering, Bellingham,
WA, USA. p 285-292
  Publication Year: 1991
  CODEN: PSISDG
                 ISSN: 0277-786X
  Language: English
  Document Type: PA; (Conference Paper) Treatment: A; (Applications); X;
(Experimental)
  Journal Announcement: 9107
  Abstract: Most documents include various layout objects, such as .
headlines, text lines, charts and tables. In particular, tables are
powerful tools that allow large quantities of data to be easily understood.
An automated document entry system is needed that can recognize the
document layout objects and extract the information from tables. In this
paper, an effective table recognition method is described. The proposed
method is composed of three steps: (1) document layout structure
recognition, (2) table layout structure recognition, (3) table content recognition. To develop the table layout structure recognition step, we
first examined the layout structure of tables in existing documents
classified several common structures. As a result of the examination, we
created ten rules and designed a ruled line and box extraction
algorithm based on these rules. The effectiveness of the proposed method
has been confirmed in experiments. Accordingly, the proposed method will
greatly contribute to the creation of an automated document entry system to
allow faster document recognition and permit the data in tables to be
extracted. (Author abstract)
  Descriptors: *DATA PROCESSING--*Data Acquisition; COMPUTER SYSTEMS
PROGRAMMING--Input Output Programs
  Identifiers: TABLE RECOGNITION METHODS; AUTOMATED DOCUMENT ENTRY SYSTEMS;
DOCUMENT LAYOUT OBJECTS
  Classification Codes:
  723 (Computer Software)
      (COMPUTERS & DATA PROCESSING)
            (Item 11 from file: 8)
DIALOG(R) File
               8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.
           E.I. Monthly No: EI9102018168
03016315
          Improvement of the backpropagation algorithm for training neural
   Title:
networks.
  Author: Leonard, J.; Kramer, M. A.
  Corporate Source: Massachusetts Inst of Technology, Cambridge, MA, USA
  Source: Computers & Chemical Engineering v 14 n 3 Mar 1990 p 337-341
```

Publication Year: 1990

CODEN: CCENDW ISSN: 0098-1354

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); T;

(Theoretical)

Journal Announcement: 9102

Abstract: The application of artificial neural networks (ANNs) to chemical engineering problems, notably malfunction diagnosis, has recently been discussed. ANNs 'learn', from examples, a certain set of input-output mappings by optimizing weights on the branches that link the nodes of the ANN. Once the structure of the input-output space is learned, novel input patterns can be classified. The backpropagation (BP) algorithm using the generalized delta rule (GDR) for gradient calculation has been popularized as a method of training ANNs. This method has the advantage of being readily adaptable to highly parallel hardware architectures. However, most current studies of ANNs are conducted primarily on serial rather than parallel processing machines. On serial machines, backpropagation is very inefficient and converges poorly. Some simple improvements, however, can render the algorithm much more robust and efficient. (Author abstract) 13 Refs.

Descriptors: *NEURAL NETWORKS; CHEMICAL ENGINEERING--Computer Applications; ARTIFICIAL INTELLIGENCE; COMPUTER PROGRAMMING--Algorithms Identifiers: ARTIFICIAL NEURAL NETWORKS; BACKPROPAGATION ALGORITHM IMPROVEMENT; NEURAL NETWORKS TRAINING; MALFUNCTION DIAGNOSIS Classification Codes:

723 (Computer Software); 805 (Chemical Engineering, General)
72 (COMPUTERS & DATA PROCESSING); 80 (CHEMICAL ENGINEERING)

7/5/12 (Item 12 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

01962126 E.I. Monthly No: EI86040333342 E.I. Yearly No: EI86099552 Title: UTILITY OF THEMATIC MAPPER SENSOR CHARACTERISTICS FOR SURFACE MINE MONITORING.

Author: Irons, James R.; Kennard, Ruth L.

Corporate Source: NASA, Goddard Space Flight Cent, Greenbelt, MD, USA Source: Photogrammetric Engineering and Remote Sensing v 52 n 3 Mar 1986 p 389-396

Publication Year: 1986

CODEN: PERSDV ISSN: 0099-1112

Language: ENGLISH

Document Type: JA; (Journal Article) Treatment: A; (Applications); X; (Experimental)

Journal Announcement: 8604

Abstract: An investigation was conducted to isolate the effects of three sensor characteristics (spatial resolution, data quantization, and spectral band configuration) on the thematic classification of remote sensing data acquired over an area containing surface coal mines. A fixed effects analysis-of-variance (ANOVA) model and a balanced experimental design were used to evaluate the effect on classification accuracy of refining each characteristic from Landsat Multispectral Scanner (MSS) specifications to Thematic Mapper (TM) specifications. Data for each treatment were independently classified into six land-cover categories using supervised training and a per-pixel, maximum-likelihood decision rule. Classification accuracies were determined by comparisons to digitized ground reference data. (Edited author abstract) 13 refs.

Descriptors: *REMOTE SENSING--*Multispectral Scanners; COAL MINES AND MINING--Remote Sensing

Identifiers: THEMATIC MAPPER SENSOR CHARACTERISTICS; SURFACE MINE MONITORING; ANALYSIS-OF-VARIANCE (ANOVA) MODEL

Classification Codes:

405 (Construction Equipment & Methods); 742 (Cameras & Photography); 503 (Mines & Mining, Coal)

40 (CIVIL ENGINEERING); 74 (OPTICAL TECHNOLOGY); 50 (MINING

(Item 1 from file: 35) DIALOG(R) File 35: Dissertation Abs Online (c) 2005 ProQuest Info&Learning. All rts. reserv.

01468858 ORDER NO: AADAA-I9608884 AN INVESTIGATION INTO THE NATURE, ORIGIN AND USE OF INDICATORS FOR EVALUATING TRAINING RESULTS IN AN ORGANIZATIONAL SETTING

Author: MAGENNIS, JO P.

Degree: ED.D. 1995 Year:

Corporate Source/Institution: THE FLORIDA STATE UNIVERSITY (0071)

Major Professor: IRWIN R. JAHNS

VOLUME 56/11-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 4248. 478 PAGES

Descriptors: EDUCATION, ADULT AND CONTINUING; EDUCATION, INDUSTRIAL;

EDUCATION, TESTS AND MEASUREMENTS
Descriptor Codes: 0516; 0521; 0288

Business and industry training is a growing area of practice in the field of adult education. Evaluation of the results of training is a challenge for both practitioners and scholars. A qualitative study of the nature, origin and use of indicators for evaluating training results was conducted over a two-year period in a nuclear utility setting. The study's participants were trainers, supervisors, managers, students and staff personnel.

Data collection involved in-depth interviews, participant observations, document reviews, journal writing, and member checking. Field notes were coded and categorized based on themes and patterns. Data analysis involved deriving categories and their properties, defining inclusion rules , constructing memos and models, formulating working hypotheses, and generating substantive theory.

The study posits four models, grounded in practice and integrated with theoretical literature. The first model, a Training Results Framework, provides a classification tool that is organized using three distinct types of results (performance, satisfaction, in-process) and six system levels (training, job, worksite, company, industry, society) relevant to business and industry. A Four-Stage Process Model for Establishing Indicators provides a systematic, ongoing methodology of activities and tasks involved in identifying, prioritizing, selecting and utilizing useful indicators. A Holistic Results-Oriented Training Evaluation System model emphasizes the quality checkpoints for monitoring a system of multiple indicators to determine the value added by training, and to provide feedback for continuous improvement of training quality. A Holistic System View of Planning and Evaluation model emphasizes the linkages among requirements, planning, evaluation and results at the various system levels, and the relationship of feedback to maintaining or modifying requirements for future planning efforts.

The study provides implications for theory showing how the findings support and build on the adult education field's existing knowledge base. The study's findings fill a gap in the literature on evaluation and monitoring of training/HRD in an organizational setting. The study provides practical implications for trainers, managers and industry leaders, and for professors and graduate students in adult education and HRD, and provides recommendations for future research.

(Item 2 from file: 35) 7/5/14 DIALOG(R) File 35: Dissertation Abs Online (c) 2005 ProQuest Info&Learning. All rts. reserv.

01424361 ORDER NO: AADAA-19523646

GENERAL METHODS FOR ANALYZING MACHINE LEARNING SAMPLE COMPLEXITY (PAC

MODEL)

Author: MICHAEL, CHRISTOPH

Degree: PH.D. Year: 1994

Corporate Source/Institution: THE COLLEGE OF WILLIAM AND MARY IN

VIRGINIA (0261) Adviser: W. ROBERT COLLINS

Source: VOLUME 56/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1542. 286 PAGES

Descriptors: COMPUTER SCIENCE; ARTIFICIAL INTELLIGENCE

Descriptor Codes: 0984; 0800

During the past decade, there has been a resurgence of interest in applying mathematical methods to problems in artificial intelligence. Much work has been done in the field of machine learning, but it is not always clear how the results of this research should be applied to practical problems. Our aim is to help bridge the gap between theory and practice by addressing the question: "If we are given a machine learning algorithm, how should we go about formally analyzing it?" as opposed to the usual question: "how do we write a learning algorithm we can analyze?"

We will consider algorithms that accept randomly drawn training data

We will consider algorithms that accept randomly drawn training data as input, and produce classification rules as their outputs. For the most part our analyses will be based on the syntactic structure of these classification rules; for example, if we know that the algorithm we want to analyze will only output logical expressions that are conjunctions of variables, we can use this fact to facilitate our analysis.

We use a probabilistic framework for machine learning, often called the pac model. In this framework, one asks whether or not a machine learning algorithm has a high probability of generating classification rules that "usually" make the right classification (pac means probably approximately correct). Research in the pac framework can be divided into two subfields. The first field is concerned with the amount of training data that is needed for successful learning to take place (success being defined in terms of generalization ability); the second field is concerned with the computational complexity of learning once the training data have been selected. Since most existing algorithms use heuristics to deal with the problem of complexity, we are primarily concerned with the amount of training data that algorithms require.

7/5/15 (Item 3 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01237208 ORDER NO: AAD92-25624

STRATEGIES AND METHODOLOGIES FOR EFFICIENT AND EFFECTIVE DESIGN VERIFICATION IN A SIMULATION ENVIRONMENT (DIGITAL SYSTEMS)

Author: KANG, SUNGHO

Degree: PH.D. Year: 1992

Corporate Source/Institution: THE UNIVERSITY OF TEXAS AT AUSTIN (0227)

Supervisor: STEPHEN A. SZYGENDA

Source: VOLUME 53/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1985. 218 PAGES

Descriptors: ENGINEERING, ELECTRONICS AND ELECTRICAL

Descriptor Codes: 0544

In recent years organizational computing has received a great deal of attention from both computer scientists and organizational scientists because of the increasing strategic importance of information technology in an organization's success. Computer systems are expected to play more important roles in supporting the ongoing activities of organizations and therefore, expected to acquire more of the characteristics of organizations. A few examples are (group) decision support systems, executive information systems, computer-supported cooperative work. and

negotiation support systems. This dissertation proposes a database framework for computer-supported interpretation systems (CSIS), based on the model of organizations as loosely-coupled interpretation systems. to support organization's information interpretation process.

We introduce an extensional approach to database management emphasizing flexibility in information acquisition and interpretation. In an extensional database, objects and classes are loosely coupled so that objects can be defined without being a member of a predefined class, the objects in a class need not be homogeneous in their attributes, and objects can be classified inductively based on expert judgement and experience as well as deductively based on structures and rules. We define the Extensional Object Model (ExOM) as a formalism for extensional databases. The ExOM incorporates imprecise data description, exemplar-based concept representation, and machine learning with conventional object-oriented models. Both the deductive and inductive approaches are integrated for interpretation. Thus we explore the possibilities of knowledge discovery or inductive learning, as well as the deductive capabilities, in a database framework.

In our view, CSIS will become the base of the next generation organizational information systems with stability and adaptability, providing the capabilities envisioned in organization theories.

7/5/16 (Item 4 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01235463 ORDER NO: AAD92-25621 A FRAMEWORK FOR COMPUTER-SUPPORTED INTERPRETATION SYSTEMS (INTERPRETATION SYSTEMS, DATABASE MANAGEMENT)

Author: JUNG, CHUL YONG

Degree: PH.D. Year: 1992

Corporate Source/Institution: THE UNIVERSITY OF TEXAS AT AUSTIN (0227)

Supervisor: ANDREW B. WHINSTON

Source: VOLUME 53/04-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1213. 143 PAGES

Descriptors: BUSINESS ADMINISTRATION, MANAGEMENT; INFORMATION SCIENCE;

ARTIFICIAL INTELLIGENCE

Descriptor Codes: 0454; 0723; 0800

In recent years organizational computing has received a great deal of attention from both computer scientists and organizational scientists because of the increasing strategic importance of information technology in an organization's success. Computer systems are expected to play more important roles in supporting the ongoing activities of organizations and therefore, expected to acquire more of the characteristics of organizations. A few examples are (group) decision support systems, executive information systems, computer-supported cooperative work, and negotiation support systems. This dissertation proposes a database framework for computer-supported interpretation systems (CSIS), based on the model of organizations as loosely-coupled interpretation systems, to support organization's information interpretation process.

We introduce an extensional approach to database management emphasizing flexibility in information acquisition and interpretation. In an extensional database, objects and classes are loosely coupled so that objects can be defined without being a member of a predefined class, the objects in a class need not be homogeneous in their attributes, and objects can be classified inductively based on expert judgement and experience as well as deductively based on structures and rules. We define the Extensional Object Model (ExOM) as a formalism for extensional databases. The ExOM incorporates imprecise data description, exemplar-based concept representation, and machine learning with conventional object-oriented models. Both the deductive and inductive approaches are integrated for interpretation. Thus we explore the possibilities of

knowledge discovery or inductive learning, as well as the deductive capabilities, in a database framework.

In our view, CSIS will become the base of the next generation organizational information systems with stability and adaptability, providing the capabilities envisioned in organization theories.

7/5/17 (Item 1 from file: 2) DIALOG(R) File 2:INSPEC (c) 2005 Institution of Electrical Engineers. All rts. reserv.

INSPEC Abstract Number: C9506-7120-003

Title: Application of the rough set approach to evaluation of bankruptcy risk

Author(s): Slowinski, R.; Zopounidis, C.

Author Affiliation: Inst. of Comput. Sci., Poznan Tech. Univ., Poland Journal: International Journal of Intelligent Systems in Accounting, vol.4, no.1 Finance and Management p.27-41

Publication Date: March 1995 Country of Publication: UK

CODEN: IJAMEN ISSN: 1055-615X U.S. Copyright Clearance Center Code: 1055-615X/95/010027-15

Document Type: Journal Paper (JP) Language: English

Treatment: Practical (P)

Abstract: We present a new approach to evaluation of bankruptcy risk of firms based on the rough set theory. The concept of a rough set appeared to be an effective tool for the analysis of information systems representing knowledge gained by experience. The financial information system describes a set of objects (firms) by a set of multi-valued attributes (financial ratios and qualitative variables), called condition attributes. The firms are classified into groups of risk subject to an expert's opinion, called decision attribute. A natural problem of knowledge analysis consists then discovering relationships, in terms of decision rules, between description of firms by condition attributes and particular decisions. The rough set approach enables one to discover minimal subsets of condition attributes ensuring an acceptable quality of classification of the firms analysed and to derive decision rules from the financial information system which can be used to support decisions about financing new firms. Using the rough set approach one analyses only facts hidden in data, it does not need any additional information about data and does not correct inconsistencies manifested in data; instead, rules produced are categorized into certain and possible. A real problem of the evaluation of bankruptcy risk by a Greek industrial development bank is studied using the rough set approach. (46 Refs)

Subfile: C

Descriptors: bank data processing; business data processing; decision support systems; expert systems; financial data processing; information systems; knowledge representation; risk management; set theory

Identifiers: rough set approach; bankruptcy risk evaluation; firms; knowledge representation; financial information system; multi-valued attributes; failed condition attributes; expert opinion; decision attribute : knowledge analysis; decision rules; classification; new firms; Greek industrial development bank

Class Codes: C7120 (Financial computing); C1160 (Combinatorial mathematics); C6170K (Knowledge engineering techniques); C7102 (Decision support systems)

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(Item 2 from file: 2) 7/5/18 DIALOG(R) File 2:INSPEC (c) 2005 Institution of Electrical Engineers. All rts. reserv.

INSPEC Abstract Number: C9405-6170-030 Title: Learning to play Connect 4: a study in attribute definition for ID3 Author(s): Baird, B.W.; Hickey, R.J.

Author Affiliation: Dept. of Comput. Sci., Ulster Univ.; Coleraine, UK p.157-65 Editor(s): Ryan, K.; Sutcliff, R.F.E. Publisher: Springer-Verlag, Berlin, Germany Publication Date: 1993 Country of Publication: West Germany ix+356 ISBN: 3 540 19799 0 Conference Title: Proceedings of Annual Irish Conference on Artificial Intelligence and Cognitive Science '92 Conference Sponsor: Digital Equipment Ireland; Hitachi, IBM Ireland; K&M Technol; et al Conference Date: 10-11 Sept. 1992 Conference Location: Limerick, Ireland Document Type: Conference Paper (PA) Language: English Treatment: Theoretical (T) Abstract: The use of algorithms such as ID3 (J. R. Quinlan, 1986) to decision trees and rule sets requires that a set of attributes or features be defined with which to describe objects to be classified . This problem is considered in an application to the game of Connect 4 where the task is to learn a set of rules with which a program can play to a reasonable standard. The attributes used evaluate the current position of a game from the point of view of both players and therefore, to a limited extent, implement a defensive as well as an offensive strategy. The attributes characterise moves made by the ultimate winners in a series of games played by novice and moderately good players. (9 Refs) Subfile: C Descriptors: computer games; decision theory; games of skill; learning (artificial intelligence); trees (mathematics) Identifiers: Connect 4; attribute definition; ID3; decision trees; rule sets; current position of game; defensive strategy; offensive strategy; machine learning; games of skill Class Codes: C6170 (Expert systems); C7830D (Computer games); C1140E (Game theory); C1160 (Combinatorial mathematics); C1240 (Adaptive system theory) (Item 3 from file: 2) 7/5/19 DIALOG(R) File 2:INSPEC (c) 2005 Institution of Electrical Engineers. All rts. reserv. INSPEC Abstract Number: C9403-7460-001 Title: System Diagnostic Builder: a rule generation tool for expert systems that do intelligent data evaluation Author(s): Nieten, J.; Burke, R. Author Affiliation: GHG Corp., Houston, TX, USA Journal: Proceedings of the SPIE - The International Society for Optical p.31-8 Engineering vol.1963 Publication Date: 1993 Country of Publication: USA CODEN: PSISDG ISSN: 0277-786X U.S. Copyright Clearance Center Code: 0 8194 1199 X/93/\$4.00 Title: Applications of Artificial Intelligence 1993: Conference Knowledge-Based Systems in Aerospace and Industry Conference Sponsor: SPIE Conference Date: 13-15 April 1993 Conference Location: Orlando, FL, USA Language: English Document Type: Conference Paper (PA); Journal Paper (JP) Treatment: Applications (A); Practical (P) Abstract: The System Diagnostic Builder (SDB) is an automated knowledge acquisition tool using state-of-the-art artificial intelligence (AI) technologies. The SDB uses an inductive machine learning technique to generate rules from data sets that are classified by a Subject

Matter Expert (SME). Thus, data is captured from the subject system, classified by an expert, and used to drive the rule generation process. These rule-bases are used to represent the observable behavior of the

subject system, and to represent knowledge about this system. The rule-bases can be used in any knowledge based system which monitors or controls a physical system or simulation. NASA Johnson Space Center needed a method of doing automated verification and validation (V&V) of the Shuttle Mission Simulator (SMS). (6 Refs)

Subfile: C

Descriptors: aerospace computing; diagnostic expert systems; knowledge acquisition; real-time systems

Identifiers: System Diagnostic Builder; rule generation tool; expert systems; intelligent data evaluation; knowledge acquisition; inductive machine learning; Subject Matter Expert; NASA Johnson Space Center; automated verification and validation; Shuttle Mission Simulator Class Codes: C7460 (Aerospace engineering); C6170 (Expert systems);

C1230 (Artificial intelligence)

7/5/20 (Item 4 from file: 2) DIALOG(R)File 2:INSPEC

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4454537 INSPEC Abstract Number: B9309-6140C-117, C9309-1250-107 Title: Fuzzy subimage classification in image sequence coding

Author(s): Kong, S.-G.; Kosko, B.
Author Affiliation: Dept. of Electr. Eng., Univ. of Southern California,
Los Angeles, CA, USA

Conference Title: ICASSP-92: 1992 IEEE International Conference on Acoustics, Speech and Signal Processing (Cat. No.92CH3103-9) p.517-20 vol.3

Publisher: IEEE, New York, NY, USA

Publication Date: 1992 Country of Publication: USA 5 vol. 3219 pp.

ISBN: 0 7803 0532 9

U.S. Copyright Clearance Center Code: 0 7803 0532 9/92/\$3.00

Conference Sponsor: IEEE

Conference Date: 23-26 March 1992 Conference Location: San Francisco, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: Fuzzy systems are used to classify subimages efficiently in adaptive hybrid transform/predictive coding of image sequences. An adaptive fuzzy system estimates fuzzy rules by clustering input- output data generated by the subimage classification method of W.-H. Chen and C.H. Smith (1977). The fuzzy rules define patches in the state space and approximate an unknown function by covering its graph with patches. The fuzzy system classifies subimages into four temporally active subimage classes according to the between-frame prediction error signal. The system encodes active subimages with more bits, and inactive subimages with fewer bits, to compress the image data. Fuzzy classification improved coding performance over nonfuzzy classification and nonadaptive interframe coding. (6 Refs)

Subfile: B C

Descriptors: fuzzy set theory; image coding; image sequences; state-space methods

Identifiers: product-space clustering; subimage classification; image sequence coding; adaptive hybrid transform/predictive coding; adaptive fuzzy system; state space; graph; patches; between-frame prediction error signal; active subimages; inactive subimages; interframe coding

Class Codes: B6140C (Optical information and image processing); B6120B (Codes); B0250 (Combinatorial mathematics); C1250 (Pattern recognition); C1160 (Combinatorial mathematics)

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606) (c) 2005 JPO & JAPIO File 350:Derwent WPIX 1963-2005/UD,UM &UP=200538 (c) 2005 Thomson Derwent

Set	Items Description
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52	
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S3	8860 RULE? ?(5N) (GENERAT? OR PRODUC???? OR CONSTRUCT? OR ESTABL-
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	OR COMPUTED OR COMPUTING)
S4	5350 RULE? ?(5N)(DETERMIN????? OR DISCERN? OR DERIV??? OR CALCU-
	LA? OR DEFIN??? OR INDUC????)
S5	87 S1:S2 AND S3:S4
S6	38 S1:S2(15N)S3:S4
S7	11 S6 AND AC=US/PR
S8	1 S7 AND AY=(1976:1997)/PR
S9	12 S6 AND PY=1976:1997
	TT TT TEE TE
S10	13 S8:S9

10/5/1 (Item 1 from file: 347)

DIALOG(R) File 347: JAPIO

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05575647 **Image available**

DEVICE FOR CLASSIFYING ELECTRONIC MAIL

PUB. NO.: 09-190447 [JP 9190447 A] PUBLISHED: July 22, 1997 (19970722)

INVENTOR(s): TANAKA MIDORI

KUDO MASATO KOSEKI YOSHIYUKI

APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 08-001880 [JP 961880] FILED: January 10, 1996 (19960110)

INTL CLASS: [6] G06F-017/30; H04L-012/54; H04L-012/58

JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 44.3

(COMMUNICATION '-- Telegraphy)

ABSTRACT

PROBLEM TO BE SOLVED: To easily generate and correct a classification rule by classifying various kinds of and large quantity of electronic mails without requiring special knowledge about a classification rule format concerning the classification of a transmission/reception mail in an electronic main system.

SOLUTION: The classification rule for classifying the transmitted/received mail is stored in a rule storing means 2. When a mail transmitting/receiving means 1 transmits and receives the electronic mail, a mail classifying means 3 decides the classification categories of the respective mails through the use of the classification rule and stores it in a mail storing means 4. A classification result display means 5 displays the mail stored in the mail storing means 4 in an input/output device 7 by classification category. When a user designates the mail to be changed in classification, a classification rule generating means 6 picks-up the list of information to be the candidate of a classification condition from the contents of the designated mail and presents it to the user. When the user selects the classification condition from the list, the classification rule generating means 6 generates the classification rule.

10/5/2 (Item 2 from file: 347)

DIALOG(R) File 347: JAPIO

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05565116 **Image available**

COMPONENT INVENTORY SCHEDULE PLANNING SUPPORT SYSTEM

PUB. NO.: 09-179916 [JP 9179916 A] PUBLISHED: July 11, 1997 (**19970711**)

INVENTOR(s): TAKADA MASAHITO
MATOBA HIDEAKI
TAKAHASHI SHINO
SEGAWA TETSUJI

APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 07-333764 [JP 95333764] FILED: December 21, 1995 (19951221) INTL CLASS: [6] G06F-019/00; G06F-017/60

JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)

ABSTRACT

PROBLEM TO BE SOLVED: To plan a component inventory schedule by setting the

volumes of component inventories of a product whose demand varies greatly and a product whose demand is hardly predicted.

SOLUTION: Component information of respective machine kinds and machine kind information are inputted, a component classified invertory calculation rule determination support means 101 simulates the necessary amounts of components, and a component classification rule defining means 113 determines a component classification rule 108 for classifying the components on the basis of the volumes of inventories of the components for classifying the components. The respective components are classified according to the component classification rule 108 and held as component classification results by a component classifying means 102, a manual adjusting means 103 supports the correction of the classifications of the components, and the correction result is held as the component classification results of the components in the component classifying means 102; and the component-classified inventory volume calculation rule 109 for calculating the volumes of inventories of the respective components is determined by the component classifying means 102 according to the component classification results and a component inventory volume setting means 104 determines the volumes of inventories of the components.

10/5/3 (Item 3 from file: 347) DIALOG(R)File 347:JAPIO

(c) 2005 JPO & JAPIO. All rts. reserv.

03558581 **Image available**
SERIAL RECORDING DEVICE

PUB. NO.: 03-221481 [JP 3221481 A] PUBLISHED: September 30, 1991 (19910930)

INVENTOR(s): HASHIMOTO TAMAKI KITAZAWA HIROAKI

APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 02-016241 [JP 9016241]
FILED: January 29, 1990 (19900129)
INTL CLASS: [5] B41J-021/00; B41J-029/38

JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines)
JAPIO KEYWORD:R131 (INFORMATION PROCESSING -- Microcomputers &

Microprocessers)

JOURNAL: Section: M, Section No. 1194, Vol. 15, No. 505, Pg. 26,

December 20, 1991 (19911220)

ABSTRACT

PURPOSE: To record sentences in a short time using small capacity of memory by the arrangement such that format information for recording by means of typical format is received and stored in a memory means.

is CONSTITUTION: Record information classified into information and sentence information, and ruled lines are stored in a memory region 7 in the form of control code indicating operation indication for recording ruled lines, such as movement position and movement quantity of a carriage of a recording device and indication of recording to a record head. And document information is stored in the form of character code. When ruled line information having format is delivered from a host device 6, said information is stored in the region 7 of RAM3 on the side of the recording device according to control procedure, so that a format indication flag is turned on. And when document information is delivered from the device 6, it is confirmed that the format indication flag has been turned on, whereby received document information is recorded sentences arranged on the ruled lines based on the format of the region 7.

DIALOG(R) File 347: JAPIO (c) 2005 JPO & JAPIO. All rts. reserv.

Image available 03305825 SLIP OUTPUT DEVICE

02-281325 [JP 2281325 A] PUB. NO.: PUBLISHED: November 19, 1990 (19901119)

MINEO SHIGEKI INVENTOR(s):

APPL. NO.:

APPLICANT(s): CASIO COMPUT CO LTD [350750] (A Japanese Company or

Corporation), JP (Japan) 01-104268 [JP 89104268]

April 24, 1989 (19890424) FILED:

[5] G06F-003/12 INTL CLASS:

JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units) JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &

Microprocessers)

Section: P, Section No. 1162, Vol. 15, No. 47, Pg. 127, JOURNAL:

February 05, 1991 (19910205)

ABSTRACT

PURPOSE: To improve the outward appearance by reading out record data in a storage means to discriminate its classification ruled line output contents by the parameter in a second determining storage means corresponding to this classification level and outputting them.

CONSTITUTION: Key items of respective records are classified to minor groups and major groups in a record file 3, and '1' and '2' are set to the beginning of each record. Other items of records are classified also. A format set control part 7 analyzes ruled lines in each classification level which are drawn on the display screen of a display part 5 by the key a key input part 2 to obtain a parameter of each of classification for repeated output of the pattern of ruled lines at the time of slip output and stores this parameter in a format memory 4. A CPU 1 successively reads out record data from the file 3 and discriminates its level and determines classification ruled line output contents based on the corresponding parameter and successively outputs them together with records. Thus, a slip format is easily set.

(Item 5 from file: 347) DIALOG(R) File 347: JAPIO (c) 2005 JPO & JAPIO. All rts. reserv.

Image available AUTOMATIC MOSAIC CONVERTING SYSTEM FOR IMAGE

01-259399 [JP 1259399 A] PUB. NO.: PUBLISHED: October 17, 1989 (19891017)

HORIUCHI KAORU INVENTOR(s): KUMAZAWA HIROYUKI

APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or

Corporation), JP (Japan) .63-087353 [JP 8887353]

APPL. NO.: April 11, 1988 (19880411) FILED.

INTL CLASS: [4] G09G-001/02; G06F-015/66; G09G-001/00; G09G-001/00;

H04N-001/411; H04N-001/415

44.9 (COMMUNICATION -- Other); 44.7 (COMMUNICATION --JAPIO CLASS:

Facsimile); 45.4 (INFORMATION PROCESSING -- Computer

Applications)

JOURNAL: Section: P, Section No. 988, Vol. 14, No. 11, Pg. 55, January

11, 1990 (19900111)

PURPOSE: To execute a mosaic conversion processing at a high speed by generating a mosaic pattern code being optimum for block data, in a pattern code generating part provided on every group which has been classified.

CONSTITUTION: In a block processing part 3, two-dimensional image data 21 consisting of N picture element in the horizontal direction and M picture element in the vertical direction is divided into (n) X (m) pieces of blocks, and block data consisting of N/n picture element in the horizontal direction and M/m picture elements in the vertical direction is obtained. Subsequently, a control part 1 extracts a processing object block from in the block data which has been divided by a block processing part 3 from the image data 21 of a memory 2, and classifies it into three kinds of groups of mosaic pattern classification examples A-C in accordance with a classifying condition 41 in a block data classification processing part 4. Next, in accordance with a pattern code generating rule of each group which has been classified, mosaic code data is generated. As a result, the processing time can be shortened remarkably.

```
10/5/6
            (Item 1 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
             **Image available**
012152008
WPI Acc No: 1998-568920/199848
XRPX Acc No: N98-442586
  Data classifier and rule generator for interpreting information -
  involves feeding data to classifier whose input and output data is fed to rule generator for interpration by operators
Patent Assignee: HOWARD G (HOWA-I); BARSON P C (BARS-I); FIELD S (FIEL-I);
  HOBSON P W (HOBS-I); CEREBRUS SOLUTIONS LTD (CERE-N); NORTHERN TELECOM
  LTD (NELE )
Inventor: HOWARD G; BARSON P C; FIELD S; HOBSON P W
Number of Countries: 020 Number of Patents: 006
Patent Family:
Patent No
              Kind
                     Date
                              Applicat No
                                             Kind
                                                    Date
                                                              Week
                              WO 98GB418
WO 9847067
               A1 19981022
                                              Α
                                                  19980211
                                                             199848
                    20010802 US 97840115
US 20010011259 A1
                                               Α
                                                   19970415
                                                             200147
                   20020101 US 97840115
US 6336109
              B2
                                              A
                                                  19970415 200207
US 20020169736 A1
                    20021114
                              US 97840115
                                              Α
                                                  19970415 200277
                              US 200238103
                                                  20020102
US 6647379
               B2
                   20031111
                              US 97840115
                                              Α
                                                  19970415
                                                             200382
                              US 200238103
                                                  20020102
                                              Α
US 20040093316 A1 20040513
                              US 97840115
                                              Α
                                                   19970415
                                                              200432
                              US 200238103
                                                  20020102
                                              Α
                              US 2003698171
                                              Α
                                                  20031031
Priority Applications (No Type Date): US 97840115 A 19970415; US 200238103
  A 20020102; US 2003698171 A 20031031
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                      Filing Notes
              A1 E 27 G06F-009/44
WO 9847067
   Designated States (National): CA JP US
   Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC
   NL PT SE
US 20010011259 A1
                         G06N-003/08
US 6336109
              B2
                        G06N-003/04
US 20020169736 A1
                        G06F-015/18
                                       .Cont of application US 97840115
                                      Cont of patent US 6336109
US 6647379
                        G06N-005/00
              B2
                                      Cont of application US 97840115
                                      Cont of patent US 6336109
US 20040093316 A1
                        G06F-017/00
                                       Cont of application US 97840115
                                      .Cont of application US 200238103
                                      Cont of patent US 6336109
                                      Cont of patent US 6647379
```

Abstract (Basic): WO 9847067 A

The analysis system is used to analyse data, e.g. call description records in a telecommunications system. The data (22) is input to a data classifier (21). This analyses data records to find similar groups of data and sorts each data record into one of the classes. The input data and the output of the calssifier are then fed to a rule inducer (25). This identifies a series of rules (24) that describe relationships between the input and output series of the classifier

Alternately a rule extractor is used. This has a neural network classifier (31) and a rule extractor (35). Training data is used to establish a set of rule to be applied to the data.

ADVANTAGE - Provides an unsupervised data classification where the output rules can be described to aid user understanding.

Dwg.2,3/8

Title Terms: DATA; CLASSIFY; RULE; GENERATOR; INTERPRETATION; INFORMATION; FEED; DATA; CLASSIFY; INPUT; OUTPUT; DATA; FEED; RULE; GENERATOR; OPERATE Derwent Class: T01

International Patent Class (Main): G06F-009/44; G06F-015/18; G06F-017/00; G06N-003/04; G06N-003/08; G06N-005/00

International Patent Class (Additional): G06E-001/00; G06E-003/00; G06G-007/00; G06N-005/02

File Segment: EPI

10/5/7 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

011145805 **Image available**
WPI Acc No: 1997-123729/ 199712

XRPX Acc No: N97-102016

Format data formation method for optical character reader - involves categorizing OK formation data group and NG format data group and displaying them on screen for error correction

Patent Assignee: OKI ELECTRIC IND CO LTD (OKID)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 9006903 A 19970110 JP 95147715 A 19950614 199712 B

Priority Applications (No Type Date): JP 95147715 A 19950614 Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 9006903 A 13 G06K-009/20

Abstract (Basic): JP 9006903 A

The method uses a photoelectric converter (21) which reads formatted images of respective documents (11-1n). Each document image is analysed by an image analysis and character recognition part (31) and the position and character of the line segment in the document image is detected. A character is recognized using a format data production part (32) based on the analysis recognition result.

A format data is produced with reference to a **format production rule** (36). An OK **format** data group and an NG format **data** group produced are **categorized** according to a breakdown part (33). A check correction part (34) checks the OK format data and the NG format data and the error location is corrected.

ADVANTAGE - Improves work efficiency. Produces format data automatically. Reduces operator's burden. Simplifies checking and correction operation. Registers correct and definite format data.

Dwg.1/12
Title Terms: FORMAT; DATA; FORMATION; METHOD; OPTICAL; CHARACTER; READ;
FORMATION; DATA; GROUP; FORMAT; DATA; GROUP; DISPLAY; SCREEN; ERROR;
CORRECT

Derwent Class: T04 International Patent Class (Main): G06K-009/20 International Patent Class (Additional): G06K-009/00; G06K-009/03 File Segment: EPI (Item 3 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2005 Thomson Derwent. All rts. reserv. 010759667 **Image available** WPI Acc No: 1996-256622/ 199626 XRPX Acc No: N96-215776 Managed Information Base mounting system for open system interconnection - has attribute value data memory that stores each classified attribute value data based from standard encoding rule format of attribute value processing module Patent Assignee: NEC CORP (NIDE) Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date Week JP 8106424 A 19960423 JP 94242599 A 19941006 199626 B Priority Applications (No Type Date): JP 94242599 A 19941006 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes 8 G06F-013/00 JP 8106424 Α Abstract (Basic): JP 8106424 A The system has an instance attribute manager (11) that classifies and regulates each attribute value data based from the reference information of a class definition dictionary (12). Each class of the classified attribute value data is sequentially supplied to an attribute data storing memory (13). Likewise, the attribute value data storing is performed according to a standard encoding rule format of an attribute value processing module (14). ADVANTAGE - Reduces storage load of memory by simplifying attribute data value using attribute value processing module. Dwg.1/3Title Terms: INFORMATION; BASE; MOUNT; SYSTEM; OPEN; SYSTEM; INTERCONNECT; ATTRIBUTE; VALUE; DATA; MEMORY; STORAGE; CLASSIFY; ATTRIBUTE; VALUE; DATA ; BASED; STANDARD; ENCODE; RULE; FORMAT; ATTRIBUTE; VALUE; PROCESS; MODULE Index Terms/Additional Words: MIB; OSI Derwent Class: T01; W01 International Patent Class (Main): G06F-013/00 International Patent Class (Additional): H04L-029/10 File Segment: EPI 10/5/9 (Item 4 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2005 Thomson Derwent. All rts. reserv. **Image available** 010645855 WPI Acc No: 1996-142809/ 199615 XRPX Acc No: N96-119601 Transmission line breakdown section and condition determination - by conferring breakdown section from classification output of self organisation neural network considering under observation measurement

Patent Assignee: HITACHI CABLE LTD (HITD); TOKYO ELECTRIC POWER CO INC

data as input based on consultation rule

Inventor: KANETA M; MATSUBARA R; OHURA K

(TOEP)

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Number of Countries: 002 Number of Patents: 003
Patent Family:
              Kind
                     Date
                             Applicat No
Patent No
                                            Kind
                                                   Date
                                                             Week
                   19960202
JP 8029480
               Α
                             JP 94162419
                                             Α
                                                 19940714
                                                           199615
US 5712796
                             US 95501573
               Α
                   19980127
                                             Α
                                                 19950712
                                                           199811
JP 3058564
               B2 20000704
                             JP 94162419
                                                 19940714
                                             Α
                                                           200036
Priority Applications (No Type Date): JP 94162419 A 19940714
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
JP 8029480
              A
                     8 G01R-031/08
US 5712796
                    11 G01R-031/08
              Α
JP 3058564
              B2
                     8 G01R-031/08
                                     Previous Publ. patent JP 8029480
Abstract (Basic): JP 8029480 A
        The method involves calculating the measurement data pertaining to
    the trouble in various locations brought by the breakdown imitation
    calculation done beforehand. The imitation measurement data are then
    passed to the self-organisation neural network with many output than
    input element.
        The consultation rule and a breakdown position is created by
    the correspondence relation of a classification
                                                      output of the
    imitation measurement data. Based on the consultation rule, the
    breakdown section is conferred from the classification output of the
    self-organisation neural network.
        USE/ADVANTAGE - For conferring and extracting breakdown section to
    narrower range than space of current measurement thus transmission line
    range is narrowed at breakdown time. Reduces labour and time for
    breakdown. Easily prepares mobilising attitude of workers at inspection
    time.
        Dwg.1/8
Title Terms: TRANSMISSION; LINE; BREAKDOWN; SECTION; CONDITION; DETERMINE;
  CONFER; BREAKDOWN; SECTION; CLASSIFY; OUTPUT; SELF; ORGANISE; NEURAL;
  NETWORK; OBSERVE; MEASURE; DATA; INPUT; BASED; RULE
Derwent Class: S01; T01; V07; X12
International Patent Class (Main): G01R-031/08
International Patent Class (Additional): H02J-000/00
File Segment: EPI
             (Item 5 from file: 350)
 10/5/10
DIALOG(R) File 350: Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
010384849
             **Image available**
WPI Acc No: 1995-286163/ 199538
Related WPI Acc No: 1998-495304
  Data processing system - has output part to provide analysis result
  pertaining to data collected from cell servers by analysing part in
  client appts
Patent Assignee: HITACHI LTD (HITA )
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No
                             Applicat No
              Kind
                     Date
                                            Kind
                                                   Date
                                                            Week
JP 7182368
                   19950721
                             JP 93327352 ·
                                                 19931224
                                                           199538
                                             Α
               Α
JP 3185167
                            JP 93327352
               B2
                  20010709
                                             Α
                                                 19931224
                                                           200140
Priority Applications (No Type Date): JP 93327352 A 19931224
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
                    12 G06F-017/30 ·
JP 7182368
              Α
JP 3185167
              B2
                    12 G06F-017/30
                                     Previous Publ. patent JP 7182368
Abstract (Basic): JP 7182368 A
        The data processing system includes a client processing appts.
```

(102) and a number of server processing appts (103-106) connected together in client server architecture. The client has a database to store this data in table format. The storing of data is to be done pertaining to a specific system of classification. An input demand received by the client appts is transmitted along with a classification roll to all servers. The rule defines the way by which the input data to be classified and using first transferring all process server appts are made to receive the two data to effect parallel processing.

The data is processed in the server appts by a classification executing part, based on the specific rule provided to it and is transmitted back to the client appts using a second transferring process. An analysing part in the client appts collectively analyses the data received from all server appts. The data processing system outputs these analysis results to the user through an output part.

ADVANTAGE - Processes data at high speed. Minimises network load.

Title Terms: DATA; PROCESS; SYSTEM; OUTPUT; PART; ANALYSE; RESULT; PERTAIN; DATA; COLLECT; CELL; SERVE; ANALYSE; PART; CLIENT; APPARATUS

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-009/44; G06F-012/00

File Segment: EPI

(Item 6 from file: 350) 10/5/11 DIALOG(R) File 350: Derwent WPIX (c) 2005 Thomson Derwent. All rts. reserv.

010232847 **Image available** WPI Acc No: 1995-134104/ 199518

XRPX Acc No: N95-105449

Compression-expansion method for electrical music instrument performance data - restoring large volume performance data by carrying out expansion of rule for compression, rule corresp. to each data structure

Patent Assignee: ROLAND KK (ROLA-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Date Applicat No Kind Kind Date Week JP 7056568 19950303 JP 93205146 19930819 Α Α 199518 B

Priority Applications (No Type Date): JP 93205146 A 19930819 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes JP 7056568 10 G10H-001/00 Α

Abstract (Basic): JP 7056568 A

The method entails the compression or expansion of performance data located in large volume in a time period.

The performance data is classified for every predetermined data structure. A compression rule is then created for every structure. The performance data is stored by expanding this compression rule.

ADVANTAGE - Shortens data length of higher frequency rank and processing time. It also restricts pressure shrinkage rate and reduces dictionary data.

Dwg.1/15

Title Terms: COMPRESS; EXPAND; METHOD; ELECTRIC; MUSIC; INSTRUMENT; PERFORMANCE; DATA; RESTORATION; VOLUME; PERFORMANCE; DATA; CARRY; EXPAND; RULE; COMPRESS; RULE; CORRESPOND; DATA; STRUCTURE

Derwent Class: P86; T01; U21; W04

International Patent Class (Main): G10H-001/00

International Patent Class (Additional): G06F-005/00; H03M-007/30

File Segment: EPI; EngPI

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10/5/12
             (Item 7 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
             **Image available**
010219051
WPI Acc No: 1995-120305/ 199516
XRPX Acc No: N95-094798
  Cell reduction apparatus for LSI design - incorporates cell reduction
  part to replace grouped macro cell by other macro cells after referring
  mapping library
Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ )
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No
              Kind
                     Date
                             Applicat No
                                             Kind
                                                             Week
                                                    Date
JP 7045707
               Α
                   19950214
                             JP 93158825
                                              Α
                                                  19930629
                                                            199516 B
JP 3195467
               B2 20010806
                            JP 93158825
                                              Α
                                                  19930629
Priority Applications (No Type Date): JP 93158825 A 19930629
Patent Details:
                        Main IPC
Patent No Kind Lan Pg
                                      Filing Notes
JP 7045707
              Α
                    18 H01L-021/82
JP 3195467
                    14 H01L-021/82
                                     Previous Publ. patent JP 7045707
              B2
Abstract (Basic): JP 7045707 A
        The cell reduction apparatus includes an input-output. Two or more
    cells are described in the macro cell library. The mapping library
    describes the rule for replacement of classified macro cells by other
    cells. For the classified macro cells, logical connection information is built up according to predetermined rule
    specifies the case where the kind of macro cell in which a
    classification is possible among above referred macro cells. The cell
    reduction part replaces classified macro cells by other macro cells
    after referring mapping library.
        ADVANTAGE - Provides circuit area and wiring reducing, flexibility
    in cell reduction, provides suitable logic connection information.
        Dwq.1/16
Title Terms: CELL; REDUCE; APPARATUS; LSI; DESIGN; INCORPORATE; CELL;
  REDUCE; PART; REPLACE; GROUP; MACRO; CELL; MACRO; CELL; AFTER; REFER; MAP
  : LIBRARY
Derwent Class: T01; U11; U13
International Patent Class (Main): H01L-021/82
International Patent Class (Additional): G06F-017/50; H01L-021/822;
  H01L-027/04
File Segment: EPI
             (Item 8 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
009703007
             **Image available**
WPI Acc No: 1993-396560/ 199350
XRPX Acc No: N93-306501
 Fuzzy logic controller with high processing speed - has input variable
  classified according to membership functions defined with overlap and
  using stored rules .
Patent Assignee: SIEMENS AG (SIEI )
Inventor: EICHFELD H; KUENEMUND T
Number of Countries: 006 Number of Patents: 005
Patent Family:
Patent No
              Kind
                     Date
                             Applicat No
                                             Kind
                                                    Date
                                                             Week
EP 573845
               A2 19931215 EP 93108532
                                             Α
                                                  19930526
                                                            199350 B
US 5371832
               Α
                   19941206 US 9322447
                                             Α
                                                  19930225
                                                            199503
                  19940420 EP 93108532
EP 573845
               Α3
                                                  19930526 199523
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EP 573845 B1 19970312 EP 93108532 A 19930526 199715 DE 59305694 G 19970417 DE 505694 A 19930526 199721 EP 93108532 A 19930526

Priority Applications (No Type Date): DE 4219348 A 19920612 Cited Patents: No-SR.Pub; 2.Jnl.Ref; EP 173383; EP 445797; EP 452824 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 573845 A2 G 21 G05B-013/02

Designated States (Regional): DE FR GB IT NL

US 5371832 A 20 G06F-015/18

EP 573845 B1 G 22 G05B-013/02

Designated States (Regional): DE FR GB IT NL

DE 59305694 G G05B-013/02 Based on patent EP 573845

EP 573845 A3 G05B-013/02

Abstract (Basic): EP 573845 A

A fuzzy logic controller is structured with a fuzzification circuit (FUZ) a rules decoder (RDEC) a rule interpretation circuit (RA), inference circuit (NF), a defuzzification circuit (DFUZ) and a cycle controller (CTRL) > The system receives a number of input variables stored in memory and values are assigned for the membership functions. The membership functions overlap and provide a maximum number of linguistic values that have weighting values.

The parameters are stored in chip memory and provides a rapid processing rate.

ADVANTAGE - High speed processing and flexibility of operation. Dwg.1/10

Title Terms: FUZZ; LOGIC; CONTROL; HIGH; PROCESS; SPEED; INPUT; VARIABLE; CLASSIFY; ACCORD; MEMBER; FUNCTION; DEFINE; OVERLAP; STORAGE; RULE Derwent Class: T01; T06; U21

International Patent Class (Main): G05B-013/02; G06F-015/18
International Patent Class (Additional): G06F-007/60; G06F-009/44
File Segment: EPI

File 348: EUROPEAN PATENTS 1978-2005/Jun W02 (c) 2005 European Patent Office File 349:PCT FULLTEXT 1979-2005/UB=20050616,UT=20050609 (c) 2005 WIPO/Univentio Set Items Description Sl 8961 (CLASSIFIED OR CATEGORIZED OR CATEGORISED) (5N) (RECORDS OR -DATA OR INFORMATION OR DOCUMENTS OR CONTENT OR ARTICLES OR IN-PUT? ? OR ELEMENTS OR ITEMS OR OBJECTS OR FILES) OUTPUT? ?(5N)(CLASSIFIER? ? OR CLASSIFY??? OR CLASSIFICATI-S2 ON OR CATEGORIZ? OR CATEGORIS?) RULE? ?(5N) (GENERAT? OR PRODUC???? OR CONSTRUCT? OR ESTABL-S3 30818 ISH? OR CREAT???? OR FASHION? OR FORM?? OR FORMING OR FORMATI-ON? ? OR DEVELOP? OR BUILT OR BUILD??? OR COMPUTE OR COMPUTES OR COMPUTED OR COMPUTING) S4 RULE? ?(5N)(DETERMIN????? OR DISCERN? OR DERIV??? OR CALCU-LA? OR DEFIN??? OR INDUC????) S1:S2(10N)S3:S4 S5 45 S1:S2(15N)S3:S4 S6 67

IDPAT (sorted in duplicate/non-duplicate order)

S7

67

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(Item 4 from file: 348)
7/3, K/4
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01897647
Method and apparatus for fault segmentation in a telephone network
Verfahren und Gerat zur Fehlersegmentierung in einem Fernsprechnetzwerk
Procede et appareil de segmentation des defaillances dans un reseau
    telephonique commute
PATENT ASSIGNEE:
  TERADYNE, INC., (1688511), 321 Harrison Avenue, Boston, Massachusetts
    02118-2238, (US), (Applicant designated States: all)
INVENTOR:
  Rosen, Joseph S., 2914 W. Jarlath Street, Chicago, IL 60645, (US)
  Schmidt, Kurt E., 6444 Brever Road, Burlington, Wisconsin 53105, (US)
  Groessl, David J., 306 Meridith Place, Vernon Hills, Illinois 60061, (US)
  Bauer, Frank R., 2232 Shiloh Drive, Long Grove, Illinois 60047, (US)
LEGAL REPRESENTATIVE:
  Collins, John David (74592), Marks & Clerk 90 Long Acre, London WC2E 9RA,
PATENT (CC, No, Kind, Date): EP 1530353 A2 050511 (Basic) APPLICATION (CC, No, Date): EP 2005075159 950922;
PRIORITY (CC, No, Date): US 311802 940926
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; PT; SE
RELATED PARENT NUMBER(S) - PN (AN):
  EP 783813
             (EP 95935092)
INTERNATIONAL PATENT CLASS: H04M-003/30; H04M-003/08
ABSTRACT WORD COUNT: 130
NOTE:
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                            Update
                                      Word Count
                            200519
      CLAIMS A (English)
                                        706
      SPEC A
                 (English)
                           200519
                                       15936
Total word count - document A
                                       16642
Total word count - document B
Total word count - documents A + B
                                      16642
... SPECIFICATION any convenient manner. They may run partially in parallel
  or completely sequentially. It is necessary, though, that rule based
  classifier 310 produce an output before case based classifier
  operates. Also, it is necessary that rule based classifier 310, case
  based classifier 312 and tree based classifier 314 all produce outputs before arbitrator 316 produces an output.
     Rule based classifier 310 is developed from commercially
  available expert system software. A suitable commercially available
  software package is CLIPS, which is sold...
 7/3, K/5
             (Item 5 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01753647
Method and system for automatic generation of an electronic balance sheet
```

Verfahren und System zur automatischen Erzeugung einer elektronischen

Danicom Management ApS, (4678440), Ordrup Jagtvej 17, 2920 Charlottenlund

Procede et systeme pour la generation automatique d'un bilan electronique

, (DK), (Applicant designated States: all)

Lund, Kai, Ordrup Jagtvej 17, 2920 Charlottenlund, (DK)

Bilanz

INVENTOR:

PATENT ASSIGNEE:

```
Fog, Ivar, Ibstrupvej 21, 2820 Gentofte, (DK)
LEGAL REPRESENTATIVE:
Andersen, Poul Hoeg et al (128331), Zacco Denmark A/S, Hans Bekkevolds Alle 7, 2900 Hellerup, (DK)
PATENT (CC, No, Kind, Date): EP 1434155 Al 040630 (Basic)
APPLICATION (CC, No, Date): EP 2003388090 031223;
PRIORITY (CC, No, Date): DK 972002019 021223
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
  HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS: G06F-017/60
ABSTRACT WORD COUNT: 166
NOTE:
  Figure number on first page: 1b
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                            Update
                                       Word Count
                           200427
      CLAIMS A (English)
                                        1575
      SPEC A
                 (English) 200427
                                        8748
Total word count - document A
                                       10323
Total word count - document B
Total word count - documents A + B
                                       10323
... SPECIFICATION between the central and local system. In this way, the
  user may perform tasks like updating or generating rules , manually
  categorise records/items, etc. while not being connected. Further, new
  records / items may (ongoing) be categorised at the central location
  before the user connects, so they are ready when the user connects.
    Upon...
             (Item 6 from file: 348)
 7/3.K/6
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01552848
SIGNAL COUPLING METHOD AND APPARATUS
SIGNALKOPPELVERFAHREN UND -VORRICHTUNG
PROCEDE ET APPAREIL DE COUPLAGE DE SIGNAUX
PATENT ASSIGNEE:
  Kabushiki Kaisha Kenwood, (852520), 2967-3, Ishikawa-cho, Hachioji-shi,
    Tokyo 192-8525, (JP), (Applicant designated States: all)
  Advanced Telecommunication Research Institute International, (3388570),
    2-2, Hikaridai 2-chome, Seika-cho, Soraku-gun, Kyoto 619-0288, (JP),
    (Applicant designated States: all)
INVENTOR:
  SATO, Yasushi, 4-16-18-401, Minaminagareyama, Nagareyama-shi, Chiba
    270-0163, (JP)
  DAVIN, Patrick, Takanoharaekihigashidanchi 7-201, 7-1-1, Sourakudai,
    Kizu-cyo, Souraku-gun, Kyoto 619-0223, (JP)
LEGAL REPRESENTATIVE:
  Patentanwalte Leinweber & Zimmermann (100262), Rosental 7, II Aufgang,
    80331 Munchen, (DE)
PATENT (CC, No, Kind, Date):
                               EP 1403851 A1 040331 (Basic)
                               WO 2003005342 030116
APPLICATION (CC, No, Date):
                                EP 2002738817 020627; WO 2002JP6479 020627
PRIORITY (CC, No, Date): JP 2001201408 010702
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G10L-013/04; G10L-013/06; G10L-013/08
ABSTRACT WORD COUNT: 147
NOTE ·
  Figure number on first page: 0002
```

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LANGUAGE (Publication, Procedural, Application): English; English; Japanese
FULLTEXT AVAILABILITY:
Available Text Language
                            Update
                                      Word Count
                            200414
      CLAIMS A
                (English)
                                        955
                 (English)
                            200414
                                        4474
      SPEC A
Total word count - document A
                                        5429
Total word count - document B
Total word count - documents A + B
                                        5429
... SPECIFICATION such as text reading software, telephone number guide,
  stock guide, traveller's guide, shop guide, and traffic information .
   Voice synthesizing methods are classified mainly into a rule
  synthesizing method and a form editing method.
    The rule synthesizing method performs morpheme analysis of a text
  from which voices are synthesized, and in accordance with ...
             (Item 7 from file: 348)
 7/3, K/7
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01417776
System and method for diagnosing and validating a machine over a network
    using waveform data
System und Verfahren zur Validierung eines Gerats uber ein Netzwerkmittels
    Wellenform-daten
Systeme et procede pour valider une machine dans un reseau a l'aide des
    donnees d'onde
PATENT ASSIGNEE:
  GENERAL ELECTRIC COMPANY, (203903), 1 River Road, Schenectady, NY 12345,
    (US), (Applicant designated States: all)
  Bonissone, Piero Patrone, 1065 Avon road, Schenectady, New York 12308,
    (US)
  Ramani, Vipin Kewal, 5156 Hart Mill Drive, Glen Allen, VA 23060, (US)
  Chen, Yu-To, 1223 Carlyle Drive, Niskayuna, New York 12309, (US)
Shah, Rasiklal Punjalal, 8 Windlass Drive, Latham, New York 12110, (US)
  Johnson, John Andrew, W322 S1734 Moraine View Drive, Delafield, Wisconsin
    53018, (US)
  Ramachandran, Ramesh, 10509 Goddard Apartments no. 279, Overland Park,
    Kansas 66214, (US)
  Steen, Phillip Edward, N9W 31418 Concord Lane, Delafield, Wisconsin 53018
    , (US)
LEGAL REPRESENTATIVE:
  Pedder, James Cuthbert et al (34801), GE London Patent Operation, Essex
    House, 12/13 Essex Street, London WC2R 3AA; (GB)
PATENT (CC, No, Kind, Date): EP 1197861 A2 020417 (Basic)
APPLICATION (CC, No, Date):
                               EP 2001304614 010524;
PRIORITY (CC, No, Date): US 578401 000526
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-011/00
ABSTRACT WORD COUNT: 89
NOTE:
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                            Update
                                      Word Count
      CLAIMS A
                 (English)
                            200216
                                        512
                            200216
                                       9551
      SPEC A
                 (English)
Total word count - document A
                                      10063
Total word count - document B
```

...SPECIFICATION training feature extractor (26) for extracting a plurality of features from each of the sets of waveform data (18) categorized as faulty data; and a training fault classifier (28) for developing a plurality of rules (76) and (78) that classify the feature extractions into a fault characterization and providing the plurality ofas normal and faulty data; extracting a plurality of features from each of the sets of waveform data (18) categorized as faulty data; and developing a plurality of rules (76) and (78) that classify the feature extractions into a fault characterization. 22. The method according to... 7/3,K/8 (Item 8 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv. 01411619 Intelligently classifying and handling user requests in a data service system Intelligente Klassifizierung und Behandlung von Benutzeranforderungen in einem Datendienstsystem Classification et traitement intelligents de requetes d'utilisateurs dans un systeme de service de donnees PATENT ASSIGNEE: Hewlett-Packard Company, A Delaware Corporation, (3016020), 3000 Hanover Street, Palo Alto, CA 94304, (US), (Applicant designated States: all) INVENTOR: Zara, Anna Maria, 4 East Creel Pl., Menlo Park, CA 94025, (US) Ramanathan, Srinivas, 63 Fourt Street, Abirampuram, Chennai-600018, (IN) Bhoj, Preeti N., 10690 Castine Ave., Cupertino, CA 95014, (US) LEGAL REPRESENTATIVE: Schoppe, Fritz, Dipl.-Ing. (55464), Patentanwalte Schoppe, Zimmermann, Stockeler & Zinkler, Postfach 71 08 67, 81458 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 1193596 A2 020403 (Basic) APPLICATION (CC, No, Date): EP 2001122210 010917; PRIORITY (CC, No, Date): US 666910 000921 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: G06F-009/50 ABSTRACT WORD COUNT: 180 NOTE: Figure number on first page: 2 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) 200214 674 (English) 200214 4902 SPEC A Total word count - document A 5576 Total word count - document B 0

...CLAIMS transaction such that subsequent requests that are part of the same transaction do not need to be **classified** again.

Total word count - documents A + B

3. The data service system of claim 2, wherein the tag generator causes the business rule engine to re-applies the business rules to responses for the subsequent requests to determine if reclassification...

5576

```
7/3.K/9
             (Item 9 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
Sorting system and method
Sortierungssystem und Methode
Systeme et methode de tri
PATENT ASSIGNEE:
  Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo
    101-8010, (JP), (Proprietor designated states: all)
INVENTOR:
  Arakawa, Hiroshi, 3871-1-201, Totsukacho, Totsuka-ku, Yokohama-shi, (JP)
  Yamamoto, Akira, 5-61, Wakamatsu-6-chome, Sagamihara-shi, (JP)
  Honma, Shigeo, 201-18, Yahagi, Odawara-shi, (JP)
  Ohata, Hideo, 1-33-402, Jonan-3-chome, Fujisawa-shi, (JP)
LEGAL REPRESENTATIVE:
  Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538
    Munchen, (DE)
                              EP 978782 Al 000209 (Basic)
PATENT (CC, No, Kind, Date):
                               EP 978782 B1 031126
                               EP 99114942 990730;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 98219253 980803
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-007/36
ABSTRACT WORD COUNT: 131
NOTE:
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                            Update
                                      Word Count
                (English)
                            200006
                                       1224
      CLAIMS A
                (English)
                            200348
                                        846
      CLAIMS B
      CLAIMS B
                  (German)
                            200348
                                        774
                                        958
      CLAIMS B
                  (French)
                            200348
      SPEC A
                 (English)
                            200006
                                      11610
      SPEC B
                           200348
                (English)
                                      10361
Total word count - document A
                                      12836
Total word count - document B
                                      12939
Total word count - documents A + B
                                      25775
... SPECIFICATION unit 105 of the input node uses the internally sorted
  result in the buffer 810 of the records in each classified record
  group corresponding to the output node determined by the predetermined
  node decision rule , as the sorted result for the determined output
  node, and selects the region for storing the sorted ...
...SPECIFICATION unit 105 of the input node uses the internally sorted
 result in the buffer 810 of the records in each classified record group corresponding to the output node determined by the predetermined
 node decision rule , as the sorted result for the determined output
 node, and selects the region for storing the sorted...
...CLAIMS of the nodes determined by said output node determining unit
      (107) and for rearranging the order of records in each classified
      record group in accordance with a predetermined sorting rule to
```

...one of the output nodes determined by said output node determining step, and rearranging the order of records in each classified record

means (105, 820) for distributing and storing said sorted string into

form a sorted string; and

storage areas...

group in accordance with a predetermined sorting rule to form a sorted string, and

distributing and storing said sorted string into storage areas of said shared external...

(Item 10 from file: 348) 7/3, K/10

DIALOG(R) File 348: EUROPEAN PATENTS

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00674450

Method for structuring an expert system utilizing one or more neural networks.

Strukturierverfahren eines Expertensystems mit einem oder mehreren Neuronalnetzwerken.

Methode pour structurer un systeme expert utilisant un ou plusieurs reseaux neuronaux.

PATENT ASSIGNEE:

MOTOROLA, INC., (205770), 1303 East Algonquin Road, Schaumburg, IL 60196, (US), (applicant designated states: DE; FR; GB; NL)

INVENTOR:

Wang, Shay-Ping Thomas, 1701 Edgewood Lane,, Long Grove, Illinois 60047, (US)

LEGAL REPRESENTATIVE:

Hudson, Peter David et al (52403), Motorola European Intellectual

Property Midpoint Alencon Link, Basingstoke, Hampshire RG21 1PL, (GB)

PATENT (CC, No, Kind, Date): EP 646879 A1 950405 (Basic) APPLICATION (CC, No, Date): EP 94115117 940926;

PRIORITY (CC, No, Date): US 129275 930930

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: G06F-015/80;

ABSTRACT WORD COUNT: 110

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Update Word Count

Available Text Language CLAIMS A (English) EPAB95 643

(English) EPAB95 5016 SPEC A Total word count - document A 5659

Total word count - document B

Total word count - documents A + B 5659

...SPECIFICATION of N values, N being a positive integer. In the example shown in FIG. 16 above, each Input was classified into one of five values.

Next, in box 147 a plurality of groups of **Production** Rules are defined by relating, for each of such groups, one of the Outputs to one or more of the...

(Item 11 from file: 348) 7/3, K/11

DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

Signal recording and reproducing apparatus

Signalaufzeichnungs- und Wiedergabegerat

Appareil d'enregistrement et de reproduction de signaux

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Ohaza Kadoma, Kadoma-shi, Osaka 571-8501, (JP), (applicant designated states: DE; FR; GB; NL)

INVENTOR:

Hamamoto, Yasuo, 2-7-8-301, Shimokosaka, Higashiosaka-shi, Osaka, (JP) Takeuchi, Akihiro, 1-1175-16, Nakanabata, Ikoma-shi, Nara-ken, (JP)

```
Morimoto, Kenji, 1-7-16-504, Takami, Konohana-ku, Osaka-shi, Osaka, (JP)
  Kohno, Katsufumi, 4-13-31, Hamaderaishizucho-Higashi, Sakai-shi, Osaka,
    (JP)
  Sakakibara, Yoshio, 9-12-301, Midori-machi, Neyagawa-shi, Osaka, (JP)
  Gotou, Makoto, 4-7-2, Naruo-cho, Nishinomiya-shi, Hyogo-ken, (JP)
LEGAL REPRESENTATIVE:
  Marx, Lothar, Dr. (8071), Patentanwalte Schwabe, Sandmair, Marx
    Stuntzstrasse 16, 81677 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 618567 A2
                                             941005 (Basic)
                              EP 618567
                                         A3
                                             960918
                              EP 618567
                                         B1
                                             990728
APPLICATION (CC, No, Date):
                              EP 94103038 940301;
PRIORITY (CC, No, Date): JP 4250093 930303; JP 4250193 930303; JP 7923693
    930406; JP 10090493 930427; JP 14588993 930617; JP 16341793 930701; JP
    18997793 930730; JP 19587693 930806; JP 27952293 931109
DESIGNATED STATES: DE; FR; GB; NL
INTERNATIONAL PATENT CLASS: G11B-005/008; G11B-020/10; H04N-005/92;
  H04N-005/783; H04N-005/94;
ABSTRACT WORD COUNT: 143
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
      CLAIMS B
                (English)
                           9930
                                      1436
      CLAIMS B
                 (German)
                           9930
                                      1255
      CLAIMS B
                 (French)
                           9930
                                      1577
      SPEC B
                (English)
                           9930
                                     23155
Total word count - document A
                                         0
Total word count - document B
                                     27423
Total word count - documents A + B
                                     27423
...SPECIFICATION by the numerals in Figure 26. In Figure 26, the lower
  numeral indicates the higher priority. The determination
  priority is not limited to the rule shown in Figure 26. Alternatively,
  the data may be classified in accordance with other criteria, or
  priorities other than the priorities described given may be given. The...
              (Item 12 from file: 348)
 7/3, K/12
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
00592041
An occupant condition determining apparatus.
Vorrichtung zur Ermittlung des Zustandes eines Raumbenutzers.
Appareil determinant la condition d'un occupant.
PATENT ASSIGNEE:
  MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216883), 1006, Oaza Kadoma,
    Kadoma-shi, Osaka-fu, 571, (JP), (applicant designated states:
    DE; FR; GB)
INVENTOR:
  Araki, Shoichi, 5-6-3, Seiiku, Joto-ku, Osaka-shi, (JP)
  Nomura, Hiroyoshi, 104 Shitomiya Mansion, 1-3, Shitomiyahon-machi,
    Shijonawate-shi, Osaka, (JP)
  Wakami, Noboru, 44-1, Yamanouekita-machi, Hirakata-shi, Osaka, (JP)
  Imanaka, Takeshi, 4-9-405, Ikuno, Katano-shi, Osaka, (JP)
LEGAL REPRESENTATIVE:
  Marx, Lothar, Dr. et al (8071), Patentanwalte Schwabe, Sandmair, Marx
    Stuntzstrasse 16, D-81677 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 589448 A1
                                             940330 (Basic)
                              EP 93115345 930923;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 92254302 920924; JP 93175233 930715
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G05D-023/19; F24F-011/00; G06M-011/00;
ABSTRACT WORD COUNT: 183
```

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) EPABF2 1302
SPEC A (English) EPABF2 14933
Total word count - document A 16235
Total word count - document B 0
Total word count - documents A + B 16235

...SPECIFICATION apparatus which can realize more comfortable air-conditions by controlling in the following manner. First, by using rules for determining the number of groups into which the elements are classified depending on the feature amount of the thermal image, the classifying of elements can be accomplished at...in that the number-of-groups determining section 3 in the first example is replated by a rule -base number-of-groups determining section 7 which determines the number of groups into which elements are classified by using rules of If-then forms which indicate the relationships between the feature amount of the thermal image and the number of groups into which elements are classified.

which elements are classified.

The rule -base number-of-groups determining section 7 stores rules for determining the number of groups, i.e., the number of clusters expressed by Expression (11).

If (Var is...the determination time is greatly shortened.

As described above, according to the second example, by using the rules of If-then forms for determining the number of groups into which elements are classified based on the feature amounts of the thermal image, the classification of the elements into a plurality...in the room can be identified.

According to the apparatus of the second example, by using the rules for determining the number of groups into which elements are classified based on the feature amounts of a thermal image, the classification of the elements into a plurality...

7/3,K/13 (Item 13 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00551927

Apparatus for controlling weft insertion in jet loom Schusseintragkontrollvorrichtung in Dusenwebmaschine Dispositif de controle de l'insertion de trame dans un metier a jet PATENT ASSIGNEE:

Kabushiki Kaisha Toyoda Jidoshokki Seisakusho, (243480), 1, Toyoda-cho 2-chome, Kariya-shi, Aichi-ken 448, (JP), (applicant designated states: BE;DE;FR;IT)

INVENTOR:

Kato, Masahiko, c/o Kabushiki Kaisha Toyoda, Jidoshokki Seisakusho, 1,
 Toyoda-cho 2-chome, Kariya-shi, Aichi-ken, (JP)
LEGAL REPRESENTATIVE:

Hammer, Bruno, Dr. (62424), c/o Sulzer Management AG KS/Patente/0007, 8401 Winterthur, (CH)

PATENT (CC, No, Kind, Date): EP 501920 A1 920902 (Basic) EP 501920 B1 960925

APPLICATION (CC, No, Date): EP 92810126 920220;

PRIORITY (CC, No, Date): JP 9130471 910225

DESIGNATED STATES: BE; DE; FR; IT

INTERNATIONAL PATENT CLASS: D03D-047/30;

ABSTRACT WORD COUNT: 216

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

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Update
                                      Word Count
Available Text Language
                           EPABF1
                                        964
      CLAIMS A
                (English)
                (English)
                           EPAB96
                                       1106
      CLAIMS B
      CLAIMS B
                  (German)
                            EPAB96
                                        973
      CLAIMS B
                  (French)
                            EPAB96
                                       1371
      SPEC A
                 (English)
                           EPABF1
                                       7247
                 (English) EPAB96
      SPEC B
                                       7020
Total word count - document A
                                       8211
Total word count - document B
                                      10470
Total word count - documents A + B
                                      18681
... SPECIFICATION accordance with weft insertion control quantity sequencing
  rules on the other hand.
    The weft insertion start timing data are classified into a
  plurality of sequentially arrayed weft insertion start timing data in
  accordance with sequencing rules defining the insertion start timing, for example, to be "early", "slightly early", "normal", "slightly late"
  and "late". On...
... SPECIFICATION accordance with weft insertion control quantity
  sequencing rules on the other hand.
    The weft insertion start timing data are classified
  plurality of sequentially arrayed weft insertion start timing data in
  accordance with sequencing rules defining the insertion start
  timing, for example, to be "early", "slightly early", "normal",
  "slightly late" and "late". On...
 7/3.K/14
              (Item 14 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
00400692
System including inductive learning arrangement for adaptive management of
    behavior of complex entity.
System einschliesslich einer induktiven Lerneinrichtung fur die adaptive
    Verwaltung eines komplexen Objektverhaltens.
         comprenant un dispositif d'apprentissage inductif pour le
    traitement adaptatif du comportement d'un objet complexe.
PATENT ASSIGNEE:
  DIGITAL EQUIPMENT CORPORATION, (313085), 111 Powdermill Road, Maynard, MA
    01754, (US), (applicant designated states:
    AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE)
INVENTOR:
  C-Y Lu, Stephen, 1205 Wilshire Court, Champaign, Illinois 61821, (US)
  Teng, Henry S., 39 Britt Lane, Groton, Massachusetts 01450, (US)
  Tseng, Mitchell M., 35 Whispering Pine Road, Sudbury, Massachusetts 01776
    . (US)
LEGAL REPRESENTATIVE:
  Goodman, Christopher et al (31122), Eric Potter & Clarkson St. Mary's
    Court St. Mary's Gate, Nottingham NG1 1LE, (GB)
PATENT (CC, No, Kind, Date): EP 396382 A2 901107 (Basic)
                               EP 396382
                                          A3
                                              910925
APPLICATION (CC, No, Date):
                               EP 90304713 900501;
PRIORITY (CC, No, Date): US 346133 890502
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: G06F-015/18; G06F-015/40;
ABSTRACT WORD COUNT: 156
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
```

Word Count

621

5135

5756

Update

EPABF1

Available Text Language

Total word count - document A

(English)

(English) EPABF1

CLAIMS A

SPEC A

Total word count - document B 0
Total word count - documents A + B 5756

...SPECIFICATION the profile knowledge store 15. In the processing the profile comparator 12 attempts to determine whether the classified acquired event data item corresponds to the stored profile rules, thereby determining whether the classified acquired data from the data acquisition portion 10 during the OPERATE phase corresponds to the classified acquired data received during the LEARN...CONFIRMATION indication during the CONFIRM sub-phase. In both cases, the executive control module 14 enables the classified data which gave rise to the SUCCESS/FAIL indication of FAIL to be transferred to the induction engine 11, which generates additional rules for storage in the profile knowledge store 15. The additional rules are available for use in conjunction...

...classes (step 101). The executive control module 14 thereafter enables the induction engine 11 to receive the **classified** acquired **data** from the **data** acquisition portion 10 and **generate** in response thereto profile **rules** (step 102) which are stored in the profile knowledge store 15 (step 103).

If, in step 100...store 15 may be modified during the OPERATE phase, the executive control module 14 enables the verification data to be classified and transferred to the induction engine 11 (step 121), which generates additional profile rules for storage in the profile knowledge store 15 (step 122). The executive control module 14 may then

7/3,K/30 (Item 30 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. **Image available** 01139065 METHOD AND APPARATUS FOR MANAGING PACKET FLOWS FOR MULTIPLE NETWORK SERVICES PROCEDE ET APPAREIL DE GESTION D'ECOULEMENT DE PAQUETS POUR DES SERVICES MULTIPLES DE RESEAU Patent Applicant/Assignee: SUN MICROSYSTEMS INC, 4150 Network Circle, Santa Clara, CA 95054, US, US (Residence), US (Nationality) Inventor(s): BRESSLER Robert D, 1891 Vallejo Street, St. Helena, CA 94574, US, SCHUBA Christoph L, Konrad Adenauer Str 87, Sandhausen, DE, SPEER Michael F, 73 Dalma Drive, Mountain View, CA 94041, US, Legal Representative: PARK Richard (agent), 508 Second St., Ste. 201, Davis, CA 95616, US, Patent and Priority Information (Country, Number, Date): WO 200462206 A2-A3 20040722 (WO 0462206) Patent: WO 2003US32232 20031010 (PCT/WO US03032232) Application: Priority Application: US 2002329016 20021223 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR (OA). BF BJ CF CG CI CM GA GN GO GW ML MR NE SN TD TG (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW (EA) AM AZ BY KG KZ MD RU TJ TM Publication Language: English Filing Language: English

Fulltext Availability: Detailed Description

Fulltext Word Count: 4378

Detailed Description

... part of a new flow. Information associated with the packet feeds through packet adaptation layer 526 into classifier 518 flow manager 402. The output of classifier 518 feeds into exception manager 521, which generates rules for the new flow. These rules are stored in dynamic rule database 524 and are used to...

...in rule table 535. This new flow is communicated to classifier 518 within flow manager 402. The output of classifier 518 is used by exception manager 521 to produce new rules for the new flow (step 704). These new rules are then integrated into the consistent set of...

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File 275: Gale Group Computer DB(TM) 1983-2005/Jun 17
         (c) 2005 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jun 16
         (c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 17
         (c) 2005 The Gale Group
     16:Gale Group PROMT(R) 1990-2005/Jun 17
File
         (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148: Gale Group Trade & Industry DB 1976-2005/Jun 16
         (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Jun 16
         (c) 2005 McGraw-Hill Co. Inc
     15:ABI/Inform(R) 1971-2005/Jun 17
         (c) 2005 ProQuest Info&Learning
File 647:CMP Computer Fulltext 1988-2005/May W5
         (c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/Jun W2
         (c) 2005 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 16
         (c) 2005 The Dialog Corp.
File 369: New Scientist 1994-2005/Apr W4
         (c) 2005 Reed Business Information Ltd.
Set
        Items
                Description
                (CLASSIFIED OR CATEGORIZED OR CATEGORISED) (5N) (RECORDS OR -
S1
        26684
             DATA OR INFORMATION OR DOCUMENTS OR CONTENT OR ARTICLES OR IN-
             PUT? ? OR ELEMENTS OR ITEMS OR OBJECTS OR FILES)
                OUTPUT? ?(5N)(CLASSIFIER? ? OR CLASSIFY??? OR CLASSIFICATI-
S2
             ON OR CATEGORIZ? OR CATEGORIS?)
                RULE? ?(5N) (GENERAT? OR PRODUC???? OR CONSTRUCT? OR ESTABL-
S<sub>3</sub>
             ISH? OR CREAT???? OR FASHION? OR FORM?? OR FORMING OR FORMATI-
             ON? ? OR DEVELOP? OR BUILT OR BUILD??? OR COMPUTE OR COMPUTES
             OR COMPUTED OR COMPUTING)
                RULE? ?(5N) (DETERMIN????? OR DISCERN? OR DERIV??? OR CALCU-
S4
             LA? OR DEFIN??? OR INDUC????)
S5
           68
                S1:S2(15N)S3:S4
S6
                RD (unique items)
```

44

14

S7

S6 NOT PY=1998:2005

(Item 1 from file: 275) 7/3, K/1DIALOG(R) File 275: Gale Group Computer DB (TM) (c) 2005 The Gale Group. All rts. reserv.

01310565 SUPPLIER NUMBER: 07473356 (USE FORMAT 7 OR 9 FOR FULL TEXT) The expert is in. (Software Review) (Nexpert Object) (includes related articles on Anatomy of an Expert-System Shell and Macintosh Expert-System Shells) (evaluation)

Rasmus, Daniel MacUser, v5, n9, p136(11) Sept, 1989

LANGUAGE: ENGLISH DOCUMENT TYPE: evaluation ISSN: 0884-0997

RECORD TYPE: FULLTEXT; ABSTRACT

2640

WORD COUNT: 6940 LINE COUNT: 00557

rule with the IF/THEN/DO format, which allows Nexpert to incorporate many complex structures such as rule -modified inferencing and **creation** of new object collections.

Nexpert's rules are a bundle of objects categorized as conditional statements, a hypothesis, and actions, all displayed in the rule editor (see Figure 4). Its...

(Item 1 from file: 636) 7/3.K/2DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2005 The Gale Group. All rts. reserv.

Supplier Number: 47260327 (USE FORMAT 7 FOR FULLTEXT) 03514840 Digging out hidden opportunities Bank Marketing International, n81, pN/A April 1, 1997 Language: English Record Type: Fulltext Document Type: Newsletter; Trade

then splits (at a node) as each new decision is made. This process carries on until a data set is classified creating a set of generalities or some pre- defined stopping point is met.

Rule Induction: This method develops rules that classify data

and are often

7/3, K/3(Item 1 from file: 16) DIALOG(R)File 16:Gale Group PROMT(R) (c) 2005 The Gale Group. All rts. reserv.

Supplier Number: 50296498 (USE FORMAT 7 FOR FULLTEXT) 05393878 INTELLIGENT AGENTS

Howlett, Dennis Unix & NT News, p18 Oct, 1997

Word Count:

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2443

sees agents in a different context. Marketing manager Dominique Verdejo says, 'Our definition is that agents are derived from a business rule processor that has the ability to apply rules to objects on the systems. Objects are classified as dumb until rules are applied to them.' Verdejo goes on to say that agents can provide...

(Item 2 from file: 16) DIALOG(R) File 16: Gale Group PROMT(R) (c) 2005 The Gale Group. All rts. reserv. 04010747 Supplier Number: 45825685 (USE FORMAT 7 FOR FULLTEXT)

SYSTEMS PUT YOUR HOUSE IN ORDER

Transportation & Distribution, p102

Oct 1, 1995

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1777

... while an automated one uses technology. Either way, the system works by applying a set of processing $\tt rules$ to data, $\tt producing$ recommended actions and $\tt information$.

Primary logistics systems can be **categorized** into four application areas:

 \star Forecasting Systems: predict finished product demand for planning purposes;

The table shows System...

7/3,K/5 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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02124513 Supplier Number: 42755894 (USE FORMAT 7 FOR FULLTEXT)
Trade debate hasn't cost sales

Automotive News, v66, n5433, p82

Feb 17, 1992

Language: English Record Type: Fulltext Document Type: Magazine/Journal; Tabloid; Trade Word Count: 470

though, has been boasting that its new 1993 MX-6 and 626 will have enough North American content to be classified as domestic under U.S. fuel-economy rules. The cars are built in Flat Rock, Mich.

"This is an industry issue. "It's a government issue. It's a...

7/3,K/6 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

08279282 SUPPLIER NUMBER: 17541426 (USE FORMAT 7 OR 9 FOR FULL TEXT) Systems put your house in order.(information systems)
Dawe, Richard L.

Transportation & Distribution, v36, n10, p102(3)

Oct, 1995

ISSN: 0895-8548 LANGUAGE: English RECORD TYPE: Fulltext; Abstract WORD COUNT: 1881 LINE COUNT: 00163

... while an automated one uses technology. Either way, the system works by applying a set of processing rules to data, producing recommended actions and information.

Primary logistics systems can be **categorized** into four application areas:

* Forecasting Systems: predict finished product demand for planning purposes; * Planning Systems: including materials...

7/3,K/7 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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07186724 SUPPLIER NUMBER: 15141228 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Intelligent access. (Third Annual International Security Systems Symposium and Exhibition) (Security Spotlight)

Arbetter, Lisa

Security Management, v38, n1, p13(1)

Jan, 1994

ISSN: 0145-9406 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 546 LINE COUNT: 00043

changed significantly before it is finalized, he explained. The draft emphasizes a commitment to open government. It establishes a rule that limits the time information should remain classified to ten years (fifteen years for top secret information) and allows for an extension at the back...

(Item 3 from file: 148) 7/3, K/8DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

(USE FORMAT 7 OR 9 FOR FULL TEXT) SUPPLIER NUMBER: 12546020 06123107 Three-step method evaluates neural networks for your application. (includes related article on seven design steps for back-propagation neural networks) (Tutorial)

Lawrence, Jeannette; Andriola, Peter EDN, v37, n16, p93(7)

August 6, 1992

DOCUMENT TYPE: Tutorial

ISSN: 0012-7515 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4572 LINE COUNT: 00350

can also generate data using simulation software, or by creating random examples (inputs) and having human experts classify them (to identify outputs). In any case, you don't need to define underlying principles, rules , or math. You don't even have to understand how to solve the problem. Knowing which data...'

7/3, K/9(Item 4 from file: 148) DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 03128729 (USE FORMAT 7 OR 9 FOR FULL TEXT) Narcotics "our no. 1 crime problem." (interview with William French Smith) U.S. News & World Report, v96, p51(2)

Feb 6, 1984 CODEN: XNWRA

ISSN: 0041-5537

· LANGUAGE: ENGLISH

RECORD TYPE:

FULLTEXT

WORD COUNT: 2201 LINE COUNT: 00170

on clearing published material would apply only to those who have access to the highest category of classified information . Under a CIA rule in effect for many years, former officials have submitted material for clearance on roughly 1,000 occasions. Changes had to be made about...

(Item 1 from file: 15) 7/3, K/10DIALOG(R) File 15:ABI/Inform(R) (c) 2005 ProQuest Info&Learning. All rts. reserv.

01327057 99-76453

A database perspective on knowledge discovery

Imielinski, Tomasz; Mannila, Heikki

Communications of the ACM v39n11 PP: 58-64 Nov 1996

ISSN: 0001-0782 JRNL CODE: ACM

WORD COUNT: 4512

...TEXT: specified through a database query) with user-defined attributes

7/3,K/14 (Item 5 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00264385 85-04818
Safety and QA in Nuclear Power Plants: A Quality Management Standard Jolivet, F.; Noel-Leroux, J. P.; Vu Hong, L.
Quality Progress v18n1 PP: 38-42 Jan 1985
ISSN: 0033-524X JRNL CODE: QPR

...ABSTRACT: and components can be grouped according to their importance to safety. The classifications can be used to establish design and construction rules that ensure structural integrity and quality commensurate with the relative importance of the individual items. Buildings, structures, and items are classified in quality assurance levels in design, manufacturing, or construction. In each classification, several factors must be taken...



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Legal Date: 06-20-2005

Total number of pages: 36

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1	SRNT	36

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